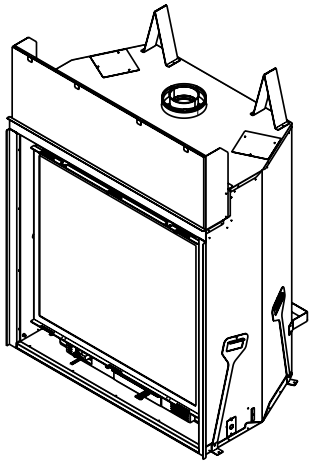
QUADRA-FIRE
NOTHING BURNS LIKE A QUAD



Owner's Manual

Installation and Operation

Model:

QFP44

GAS-FIRED
c UL us
LISTED

CAUTION

DO NOT DISCARD THIS MANUAL

DO NOT DISCARD

- Important operating and maintenance instructions included.
- Read, understand and follow these instructions for safe installation and operation.
- Leave this manual with party responsible for use and operation.

⚠ WARNING

If the information in these instructions is not followed exactly, a fire may result causing property damage, personal injury, or death.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **What to do if you smell gas:**
  - Do not try to light any appliance.
  - Do not touch any electrical switch. Do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

In the Commonwealth of Massachusetts:

- installation must be performed by a licensed plumber or gas fitter;

See Table of Contents for location of additional Commonwealth of Massachusetts requirements.

⚠ WARNING

HOT! DO NOT TOUCH.
SEVERE BURNS MAY RESULT.
CLOTHING IGNITION MAY RESULT.

Glass and other surfaces are hot during operation and cool down.

- Keep children away.
- CAREFULLY SUPERVISE children in same room as appliance.
- Alert children and adults to hazards of high temperatures.
- Do NOT operate with protective barriers removed or door open.
- Keep clothing, furniture, draperies and other combustibles away.

This appliance may be installed as an OEM installation in manufactured home (USA only) or mobile home and must be installed in accordance with the manufacturer's instructions and the manufactured home construction and safety standard, ***Title 24 CFR, Part 3280*** or ***Standard for Installation in Mobile Homes, CAN/CSA Z240MH.***

This appliance is only for use with the type(s) of gas indicated on the rating plate. A conversion kit is supplied with the appliance.

NATIONAL FIREPLACE INSTITUTE NFI CERTIFIED

Installation and service of this appliance should be performed by qualified personnel. Hearth & Home Technologies suggests NFI certified or factory-trained professionals, or technicians supervised by an NFI certified professional.

Wood Energy Technical Training www.wettinc.ca

Read this manual before installing or operating this appliance.
Please retain this owner's manual for future reference.

Congratulations

Congratulations on selecting a Quadra-Fire gas appliance—an elegant and clean alternative to wood burning appliances. The Quadra-Fire gas appliance you have selected is designed to provide the utmost in safety, reliability, and efficiency.

As the owner of a new appliance, you'll want to read and carefully follow all of the instructions contained in this owner's manual. Pay special attention to all cautions and warnings.

This owner's manual should be retained for future reference. We suggest you keep it with your other important documents and product manuals.

The information contained in this owner's manual, unless noted otherwise, applies to all models and gas control systems.

Your new Quadra-Fire gas appliance will give you years of durable use and trouble-free enjoyment. Welcome to the Quadra-Fire family of appliance products!

Homeowner Reference Information

We recommend that you record the following pertinent information about your appliance:

Model Name: _____ Date purchased/installed: _____

Serial Number: _____ Location on appliance: _____

Dealership purchased from: _____ Dealer phone: _____

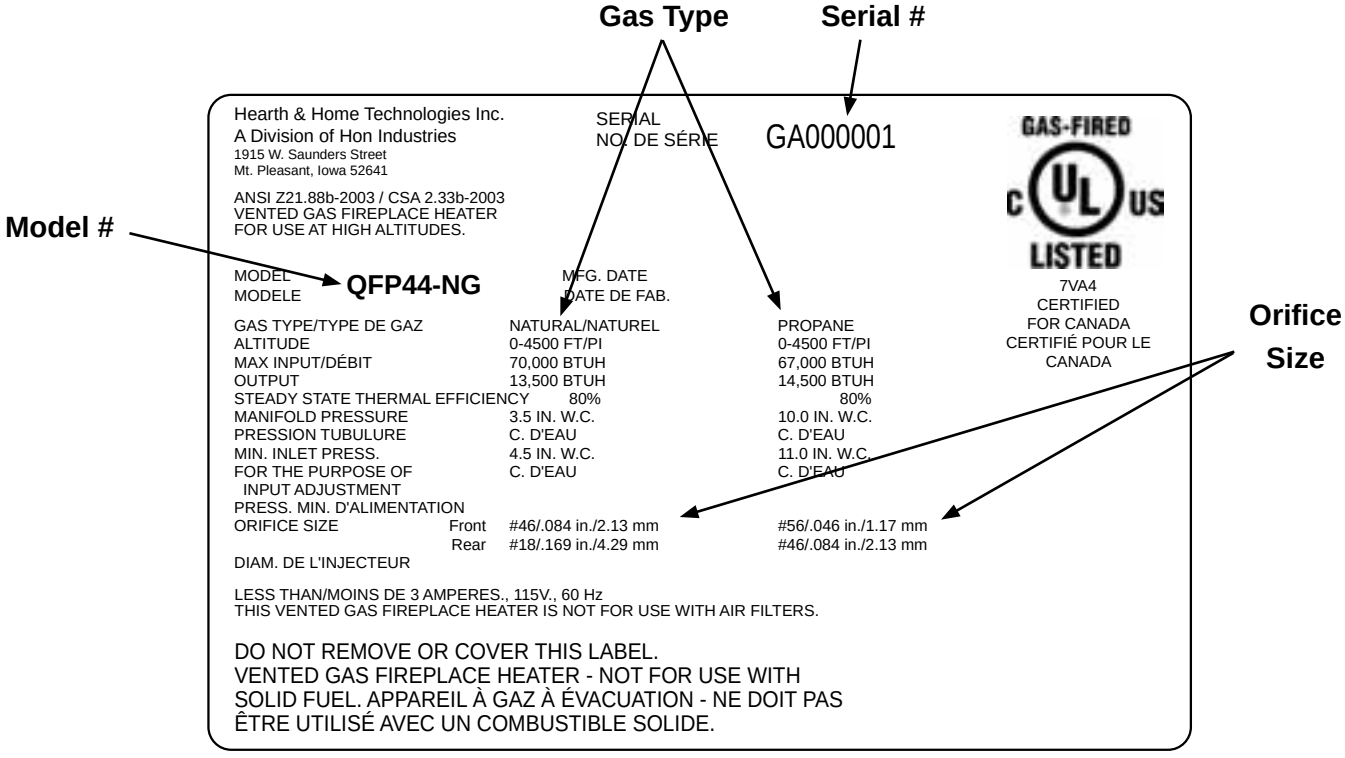
Notes: _____

_____

_____

Listing Label Information/Location

The model information regarding your specific appliance can be found on the rating plate located in the control area of the appliance.



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1 Listing and Code Approvals

A. Appliance Certification

MODELS: **QFP44**
LABORATORY: Underwriters Laboratories, Inc. (UL)
TYPE: Direct Vent Gas Heater
STANDARD: **ANSI Z21.88b-2003 • CSA 2.33b-2003**

This product is listed to ANSI standards for "Vented Gas Appliance Heaters".

Manufactured Home or Mobile Home installation may occur only after the home is site located and must conform with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, or, when such a standard is not applicable, the Standard for Manufactured Home Installations, ANSI/NCSBCS A225.1, or Standard for Gas Equipped Recreational Vehicles and Mobile Housing, CSA Z240.4.

When installed, the appliance must be electrically grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, or the Canadian Electrical Code, CSA C22.1.

NOT INTENDED FOR USE AS A PRIMARY HEAT SOURCE. This appliance is tested and approved as either supplemental room heat or as a decorative appliance. It should not be factored as primary heat in residential heating calculations.

B. Glass Specifications

This appliance is equipped with 5 mm ceramic glass. Replace glass only with 5 mm ceramic glass. Please contact your dealer for replacement glass.

Note: This installation must conform with local codes. In the absence of local codes you must comply with the **National Fuel Gas Code, ANSI Z223.1/NFPA 54** or **Natural Gas and Propane Installation Code, CSA B149.1** in the U.S.A. and the **CAN/CGA B149 Installation Codes** in Canada.

C. BTU Specifications

QFP44 Series	IPI
Max/Min Input Rate (NG) Both Burners	70,000/47,000
Max/Min Input Rate (NG) Front Burner	19,000/13,500
Max/Min Input Rate (LP) Both Burners	67,000/51,000
Max/Min Input Rate (LP) Front Burner	21,000/14,500
Orifice Size (NG) Front	#46/.084 in./2.13mm
Orifice Size (NG) Rear	#18/.169 in./4.29 mm
Orifice Size (LP) Front	#56/.046 in./1.17 mm
Orifice Size (LP) Rear	#46/.084 in./2.13mm

D. High Altitude Installations

U.L. Listed gas appliances are tested and approved without requiring changes for elevations from 0 to 2000 feet in the U.S.A. and Canada.

When installing this appliance at an elevation above 2000 ft, it may be necessary to decrease the input rating by changing the existing burner orifice to a smaller size. Input rate should be reduced by 4% for each 1000 ft above a 2000 ft elevation in the U.S.A., or 10% for elevations between 2000 and 4500 ft in Canada. If the heating value of the gas has been reduced, these rules do not apply. To identify the proper orifice size, check with the local gas utility.

If installing this appliance at an elevation above 4500 ft (in Canada), check with local authorities.

⚠ WARNING

Do NOT use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

E. Non-Combustible Materials

Material which will not ignite and burn. Such materials are those consisting entirely of steel, iron, brick, tile, concrete, slate, glass or plasters, or any combination thereof.

Materials that are reported as passing **ASTM E 136, Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750° C**, shall be considered non-combustible materials.

F. Combustible Materials

Materials made of or surfaced with wood, compressed paper, plant fibers, plastics, or other material that can ignite and burn, whether flame proofed or not, or whether plastered or unplastered shall be considered combustible materials.

NOTE: The following requirements reference various Massachusetts and national codes not contained in this document.

G. Requirements for the Commonwealth of Massachusetts

For all side wall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than seven (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

Installation of Carbon Monoxide Detectors

At the time of installation of the side wall horizontal vented gas fueled equipment, the installing plumber or gas fitter shall observe that a hard wired carbon monoxide detector with an alarm and battery back-up is installed on the floor level where the gas equipment is to be installed. In addition, the installing plumber or gas fitter shall observe that a battery operated or hard wired carbon monoxide detector with an alarm is installed on each additional level of the dwelling, building or structure served by the side wall horizontal vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard wired carbon monoxide detectors.

In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.

In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.

Approved Carbon Monoxide Detectors

Each carbon monoxide detector as required in accordance with the above provisions shall comply with NFPA 720 and be ANSI/UL 2034 listed and IAS certified.

Signage

A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print size no less than one-half (1/2) inch in size, **"GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS".**

Inspection

The state or local gas inspector of the side wall horizontally vented gas fueled equipment shall not approve the installation unless, upon inspection, the inspector observes carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.08(2)(a)1 through 4.

Exemptions

The following equipment is exempt from 248 CMR 5.08(2)(a)1 through 4:

- The equipment listed in Chapter 10 entitled "Equipment Not Required To Be Vented" in the most current edition of NFPA 54 as adopted by the Board; and
- Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.

MANUFACTURER REQUIREMENTS

Gas Equipment Venting System Provided

When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions provided by the manufacturer for installation of the equipment and the venting system shall include:

- Detailed instructions for the installation of the venting system design or the venting system components; and
- A complete parts list for the venting system design or venting system.

Gas Equipment Venting System NOT Provided

When the manufacturer of a Product Approved side wall horizontally vented gas fueled equipment does not provide the parts for venting the flue gases, but identifies "special venting systems", the following requirements shall be satisfied by the manufacturer:

- The referenced "special venting system" instructions shall be included with the appliance or equipment installation instructions; and
- The "special venting systems" shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.

A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.

See Gas Connection section for additional Commonwealth of Massachusetts requirements.

2 Getting Started

A. Design and Installation Considerations

Quadra-Fire direct vent gas appliances are designed to operate with all combustion air siphoned from outside of the building and all exhaust gases expelled to the outside. No additional outside air source is required.

CAUTION

Check building codes prior to installation.

- Installation MUST comply with local, regional, state and national codes and regulations.
- Consult insurance carrier, local building, fire officials or authorities having jurisdiction about restrictions, installation inspection, and permits.

When planning an appliance installation, it's necessary to determine the following information before installing:

- Where the appliance is to be installed.
- The vent system configuration to be used.
- Gas supply piping.
- Electrical wiring.
- Framing and finishing details.
- Whether optional accessories—devices such as a Heatzone kit, wall switch, or wall thermostat—are desired.

⚠ WARNING

Keep appliance dry.

- Mold or rust may cause odors.
- Water may damage controls.

B. Tools and Supplies Needed

Before beginning the installation be sure that the following tools and building supplies are available.

Reciprocating saw	Framing material
Pliers	Hi temp caulking material
Hammer	Gloves
Phillips screwdriver	Framing square
Flat blade screwdriver	Electric drill and bits (1/4 in.)
Plumb line	Safety glasses
Level	Manometer
Voltmeter	Tape measure

Non-corrosive leak check solution

1/2 - 3/4 in. length, #6 or #8 Self-drilling screws

C. Unpack and Inspect the Appliance and Components

⚠ WARNING

Inspect appliance and components for damage. Damaged parts may impair safe operation.

- Do NOT install damaged components.
- Do NOT install incomplete components.
- Do NOT install substitute components.

Report damaged parts to dealer.

⚠ WARNING

Hearth & Home Technologies disclaims any responsibility for, and the warranty will be voided by, the following actions:

- Installation and use of any damaged appliance or vent system component.
- Modification of the appliance or vent system.
- Installation other than as instructed by Hearth & Home Technologies.
- Improper positioning of the gas logs or the glass door.
- Installation and/or use of any component part not approved by Hearth & Home Technologies.

Any such action may cause a fire hazard.

- Refer to Figures 2.1 - 2.2.
- Carefully remove the appliance and components from the packaging:
  - Remove the refractory from the back of the unit by removing the screws from the shipping bracket.
  - The logs and ember bed are shipped on top of the unit. Remove all five packages and the shipping spacer located on top of the flue before installing the unit.
  - Remove the screws from the shipping brackets before trying to remove the unit from the pallet.
  - Remove and save the screws from the andirons for later installation.
  - Remove the screw from the top of each carrying handle. The handles have been provided to assist in moving the unit.
- The vent system components and door fronts are shipped in separate packages.
- Report to your dealer any parts damaged in shipment, particularly the condition of the glass.
- **Read all of the instructions before starting the installation. Follow these instructions carefully during the installation to ensure maximum safety and benefit.**

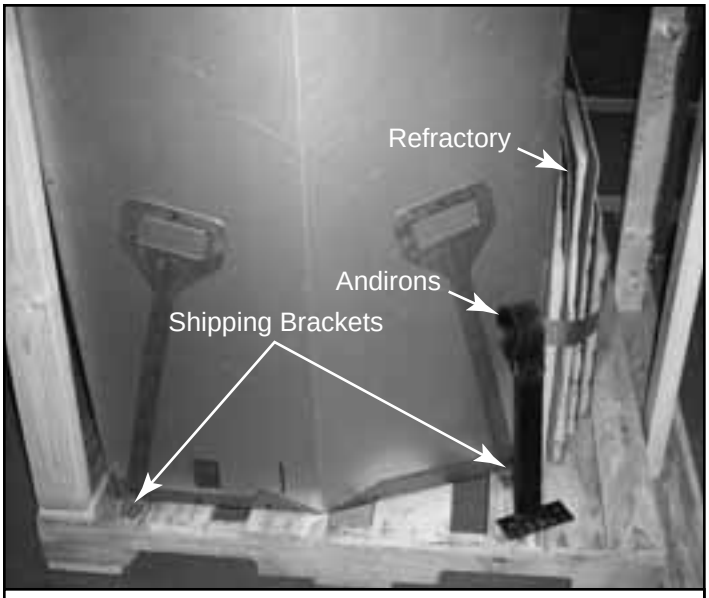


Figure 2.1 Refractory Shipping Location, Brackets

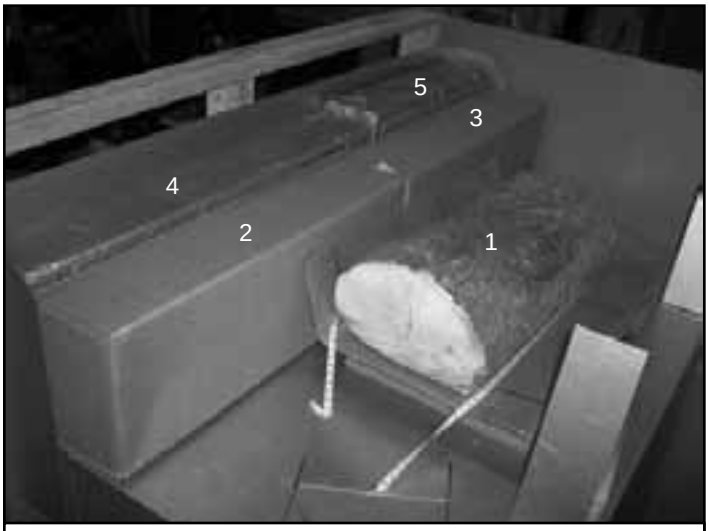


Figure 2.2 Logs on Top

3 Framing and Clearances

Note:

- Illustrations reflect typical installations and are FOR DESIGN PURPOSES ONLY.
- Illustrations/diagrams are not drawn to scale.
- Actual installation may vary due to individual design preference.

⚠ WARNING

Fire Risk

Provide adequate clearance:

- Around air openings.
- To combustibles.
- For service access.

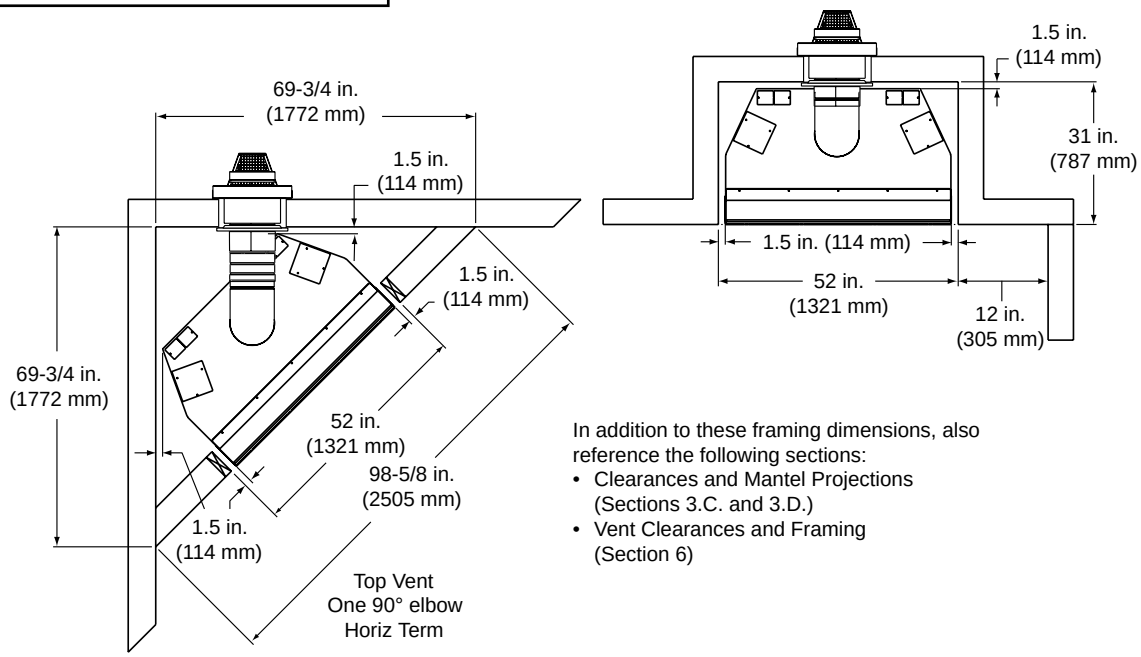
Locate appliance away from traffic areas.

A. Select Appliance Location

When selecting a location for your appliance it is important to consider the required clearances to walls (See Figure 3.1).

Note: For actual appliance dimensions refer to Section 16.

Note: Gas installation on left side ONLY.



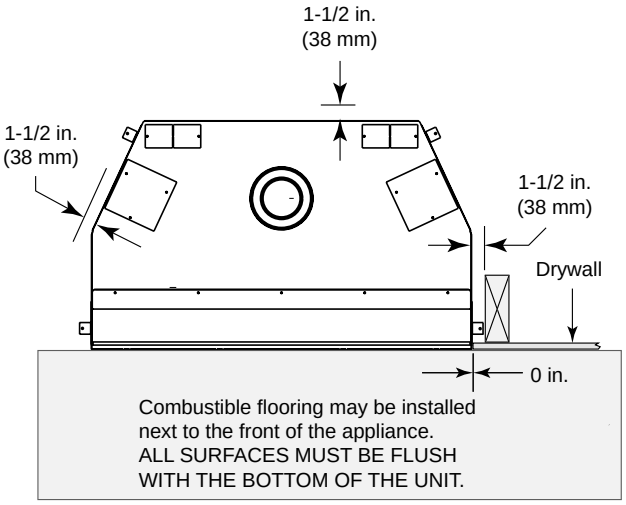
In addition to these framing dimensions, also reference the following sections:

- Clearances and Mantel Projections (Sections 3.C. and 3.D.)
- Vent Clearances and Framing (Section 6)

Figure 3.1 Appliance Locations

Note: Wiring for the heat zone kit must be done before framed enclosure is completed. The QFP-Heat-Zone must be installed before enclosure is complete.

B. Clearances

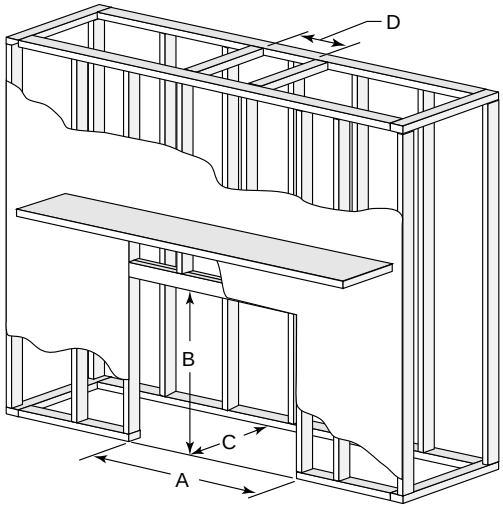


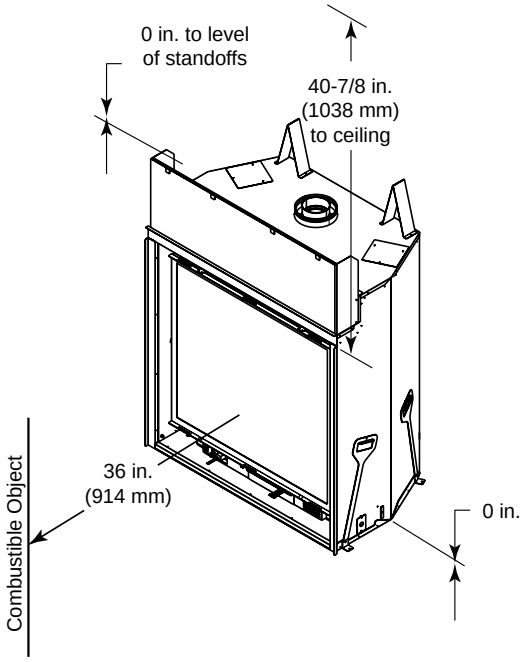
⚠ WARNING

Fire Risk
Odor Risk

- Install appliance on hard metal or wood surfaces extending full width and depth of appliance.
- Do NOT install appliance directly on carpeting, vinyl, tile or any combustible material other than wood.

➡ **Note:** If the inside of the framed cavity is to be finished, the framing dimensions **must** include the finished surface. If drywall is to be attached to the rear wall, the depth must be measured from the drywall surface.





Model		A Rough Opening (Width)	B Rough Opening (Height)	C Rough Opening (Depth)	D Rough Opening (DVP Pipe)
QFP44	*inches*	52	66-5/8	31	10
	mm	1321	1692	787	254

Figure 3.2 Clearances to Combustibles

D. Non-Combustible Zone

- The QFP44 is shipped with non-combustible material in place. Do not cover or replace this non-combustible material with combustible materials.
  - The non-combustible front upper can be removed if replaced with non-combustible materials. See Section 1.E. for materials that may be used.
- Combustible finish wall material may be butted up to the unit and the supplied non-combustible material of the upper front.
  - The unit is shipped with door templates attached. The wall material should go behind the templates and butt up to the edge of the unit. Refer to Figure 11.2.
- The joints next to the unit should be filled with high temperature sealant. The joints at the non-combustible material may be taped and covered with normal joint compound.

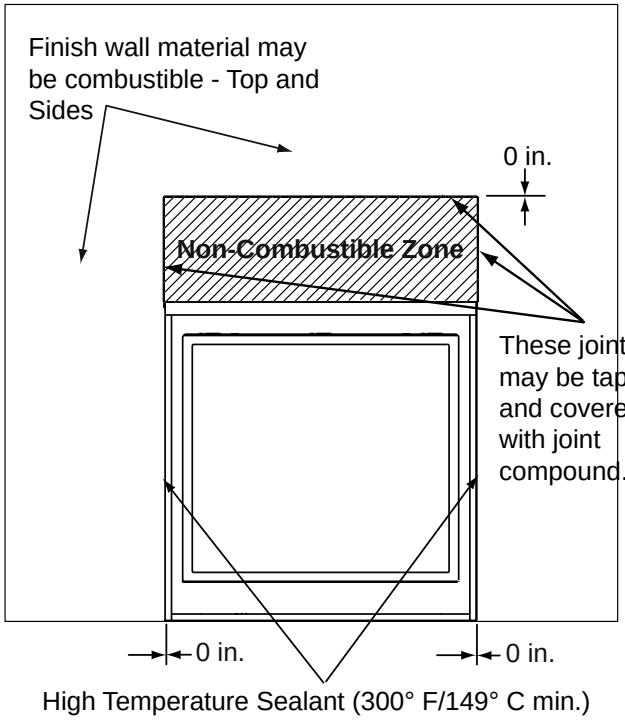

Finish wall material may be combustible - Top and Sides
0 in.
Non-Combustible Zone
These joints may be taped and covered with joint compound.
0 in.
0 in.
High Temperature Sealant (300° F/149° C min.)

Figure 3.3 Non-combustible Zone

D. Mantel

- Mantels may be constructed with combustible or non-combustible materials as indicated in Figure 3.4.

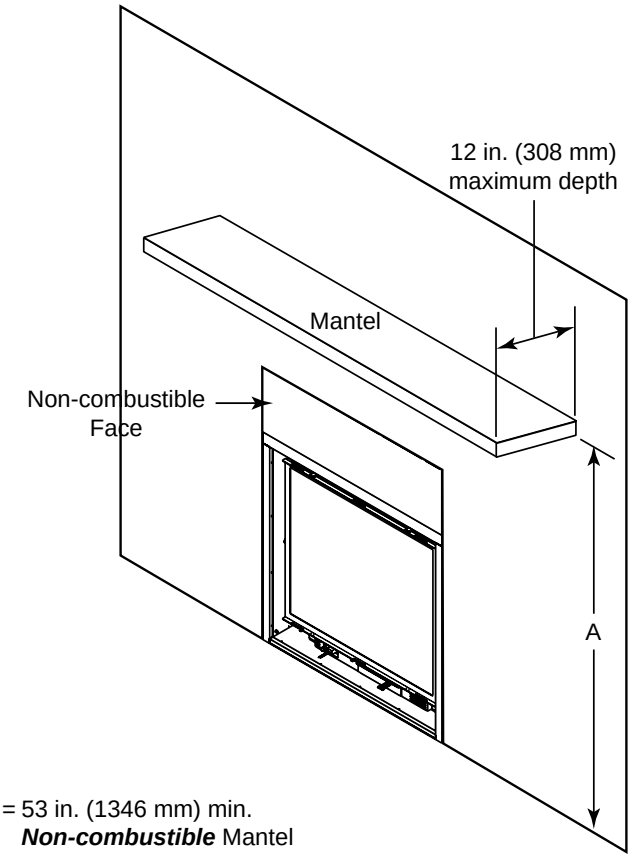


Figure 3.4 Minimum Mantel Heights

⚠ WARNING

Fire Risk

- Comply with all minimum clearances to combustibles as specified.
- Framing or finishing material used on the front of, or in front of, the appliance closer than the minimums listed, must be constructed entirely of noncombustible materials (i.e., steel studs, concrete board, etc.).

Failure to comply may cause fire.

4 Termination Locations and Clearances

A. Vent Termination Minimum Clearances

⚠ WARNING

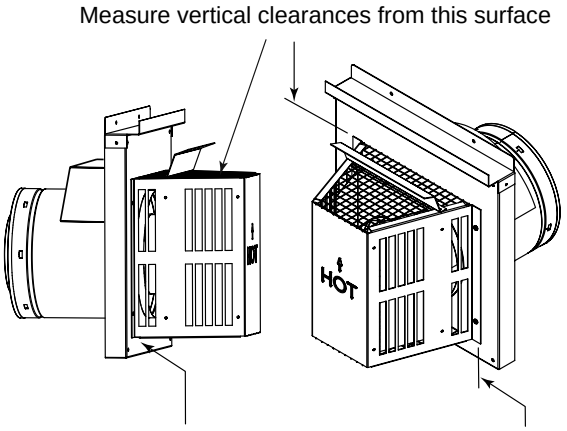
Fire Risk

Explosion Risk

Maintain vent clearance to combustibles as specified.

- Do not pack air space with insulation or other materials.

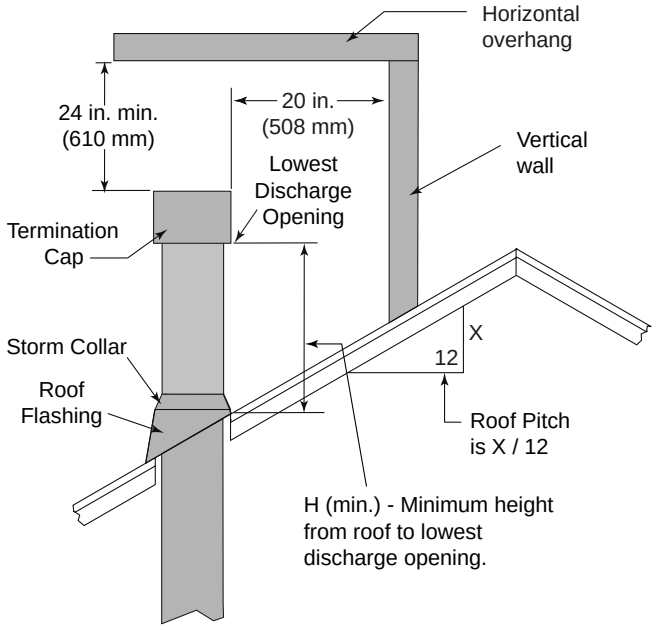
Failure to keep insulation or other materials away from vent pipe may cause fire.



(see Figure 4.4 for specific clearances)

Figure 4.1 Clearances from Cap Surfaces

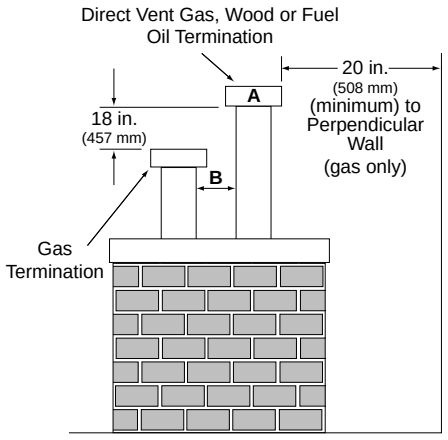
Figure 4.2 specifies minimum vent heights for various pitched roofs.



Roof Pitch	H (Min.) Ft.	Roof Pitch	H (Min.) Ft.
Flat to 6/12	1.0*	Over 11/12 to 12/12	4.0
Over 6/12 to 7/12	1.25*	Over 12/12 to 14/12	5.0
Over 7/12 to 8/12	1.5*	Over 14/12 to 16/12	6.0
Over 8/12 to 9/12	2.0*	Over 16/12 to 18/12	7.0
Over 9/12 to 10/12	2.5	Over 18/12 to 20/12	7.5
Over 10/12 to 11/12	3.25	Over 20/12 to 21/12	8.0

* 3 ft. minimum in snow regions

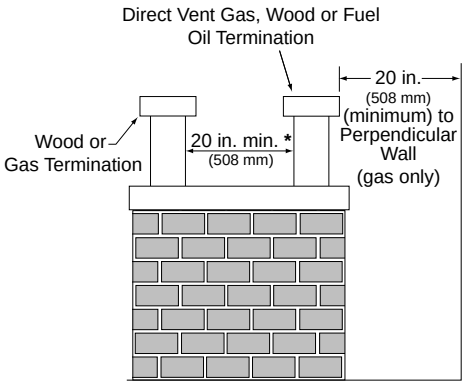
Figure 4.2 Minimum Height from Roof to Lowest Discharge Opening


Direct Vent Gas, Wood or Fuel Oil Termination
20 in. (508 mm) (minimum) to Perpendicular Wall (gas only)
A
18 in. (457 mm)
B
Gas Termination

Termination Caps Staggered Height

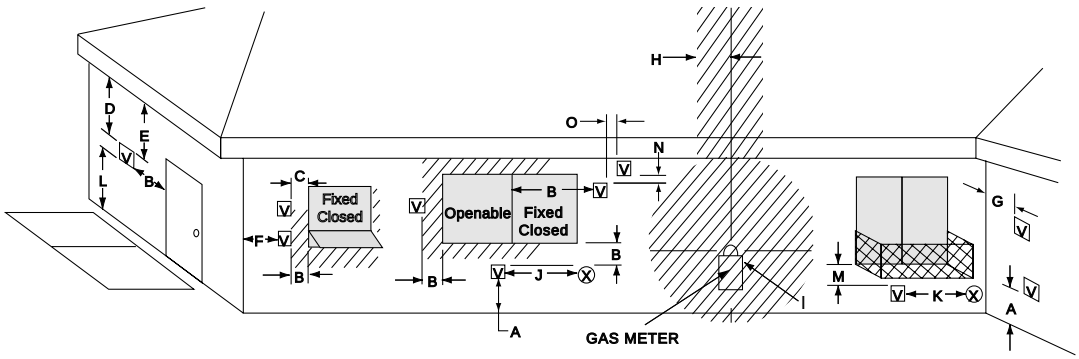
	A	Gas Termination	Wood or Fuel Oil Termination
B	6 in. (152 mm) min.	20 in. (508 mm) min.	

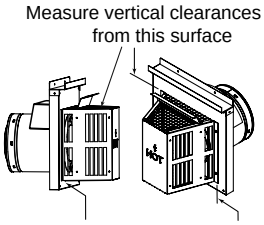
Termination Caps Same Height

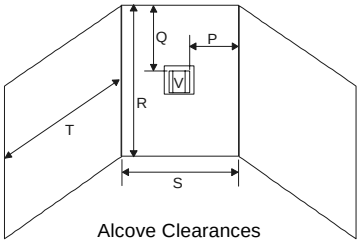

Direct Vent Gas, Wood or Fuel Oil Termination
20 in. (508 mm) (minimum) to Perpendicular Wall (gas only)
Wood or Gas Termination
20 in. min. * (508 mm)

* If using decorative cap cover(s), this distance may need to be increased. Refer to the installation instructions supplied with the decorative cap cover.

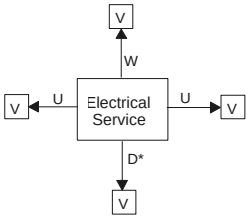
Figure 4.3 Multiple Vertical Termination







Alcove Clearances



Clearances to Electrical Service

Dimension Descriptions

A Clearance above the ground, a veranda, porch, deck or balcony - 12 in. (30 cm) minimum. *

B Clearance to window or door that may be opened – 10,000 BTUs or less, 6 in. (15 cm) minimum; 10,000-50,000 BTUs, 9 in. (23 cm) minimum; over 50,000 BTUs, 12 in. (30 cm) minimum. *

C Clearance to permanently closed window – 12 in. (30 cm) minimum - recommended to prevent condensation on window.

D Vertical clearance to ventilated soffit located above the termination within a horizontal distance of 2 ft (60 cm) from the centerline of the termination – 18 in. (46 cm) minimum. **

E Vertical clearance to unventilated soffit - 12 in. (30 cm) minimum. **

F Clearance to outside corner - 6 in. (15 cm) minimum.

G Clearance to inside corner - 6 in. (15 cm) minimum.

H Not to be installed above a meter/regulator assembly within 3 ft (90 cm) horizontally* from the center line of the regulator (Canada only)

I Clearance to service regulator vent outlet – 3 ft (.91 m) U.S. minimum and 3 ft (.91 m) Canada minimum. *

J Clearance to non-mechanical air supply inlet into building or the combustion air inlet to any other appliance – 9" (23 cm) U.S. minimum and 12 in. (30 cm) Canada minimum. *

K Clearance to mechanical air supply inlet - 3 ft (.91 m) U.S. minimum and 6 ft (1.8 m) Canada minimum. *

L Clearance above a paved sidewalk or paved driveway located on public property - 7 ft (2.1 m) minimum.

A vent may not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings.

M Clearance under veranda, porch, deck or balcony - 12 in. (30 cm) minimum. * Recommended 30 in. (76 cm) for vinyl or plastic.

Only permitted if veranda, porch, deck or balcony is fully open on a minimum of 2 sides beneath the floor. *

N Vertical clearance between two horizontal termination caps – 12 in. (30 cm) minimum.

O Horizontal clearance between two horizontal termination caps – 12 in. (30 cm) minimum.

P 6" - Non-vinyl sidewalls

12" – Vinyl sidewalls

Q 18" – Non-vinyl soffit and overhang

42" – Vinyl soffit and overhang

R 8 ft.

	S_{min}	T_{max}
1 cap	3 ft	2 x S actual
2 caps	6 ft	1 x S actual
3 caps	9 ft	2/3 x S actual
4 caps	12 ft	1/2 x S actual
S_{min} = # term caps x 3	T_{max} = (2/# term caps) x S (actual)	

U 6" min. – Clearance from sides of electrical service.

W 12" min. – Clearance above electrical service.

* As specified in CGA B149 Installation Codes

Note: Local codes or regulations may require different clearances.

** Clearance required to vinyl soffit material – 30 in. (76 cm) minimum.

Note: Location of the vent termination must not interfere with access to the electrical service.

WARNING!

In the U.S.: Vent system termination is NOT permitted in screened porches. You must follow side wall, overhang and ground clearances as stated in the instructions.

In Canada: Vent system termination is NOT permitted in screened porches. Vent system termination is permitted in porch areas with two or more sides open. You must follow all side wall, overhang and ground clearances as stated in the instructions.

Hearth & Home Technologies assumes no responsibility for the improper performance of the appliance when the venting system does not meet these requirements.

Figure 4.4 Minimum Clearances for Terminations

5 Vent Clearances and Framing

A. Pipe Clearances to Combustibles

⚠ WARNING

Fire Risk
Explosion Risk

Maintain vent clearance to combustibles as specified.

- Do not pack air space with insulation or other materials.

Failure to keep insulation or other materials away from vent pipe may cause fire.

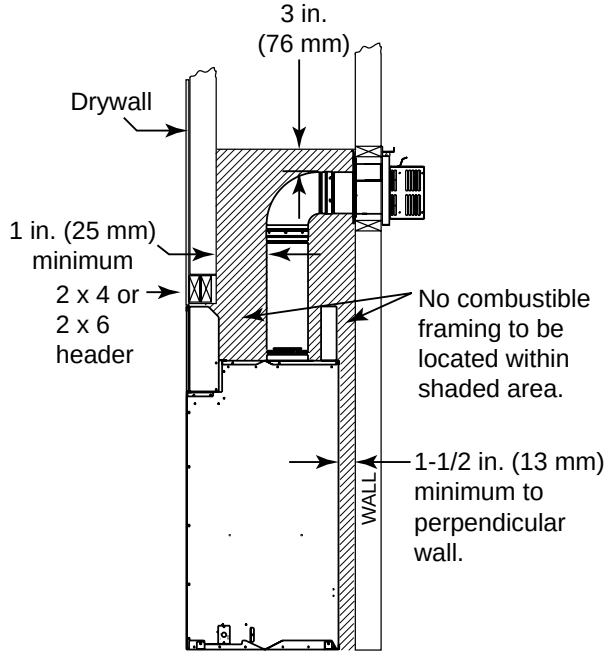


Figure 5.1 Pipe Clearances

B. Wall Penetration Framing

- Frame a hole in a combustible wall for a wall shield firestop (Figures 5.1 through 5.3) whenever a wall is penetrated. Use same size framing materials as those used in the wall construction. The wall shield firestop maintains minimum clearances and prevents cold air infiltration.
- If the hole being penetrated is surrounded by non-combustible materials such as concrete, a hole with diameter 1 in. greater than the pipe is acceptable.

Note: Heat shields MUST overlap by a minimum of 1-1/2 in. (38 mm). The heat shield is designed to be used on a wall 4 in. to 7-1/4 in. (102 mm to 184 mm) thick. If wall thickness is less than 4 in. (102 mm) the existing heat shields must be field trimmed. If wall thickness is greater than 7-1/4 in. (184 mm) a DVP-HSM-B will be required.

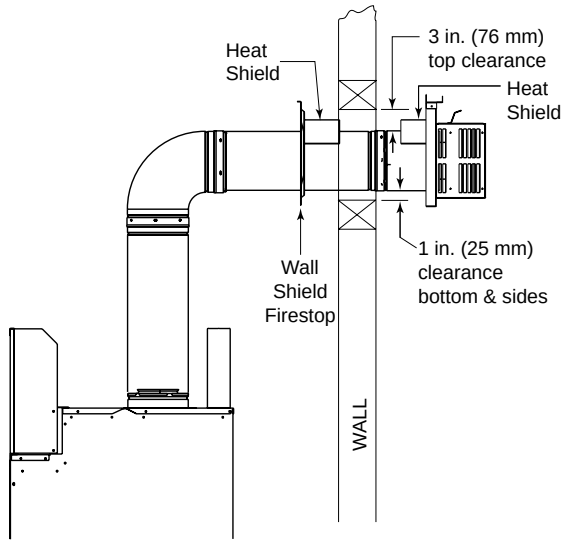


Figure 5.2 Horizontal Venting Clearances to Combustible Materials

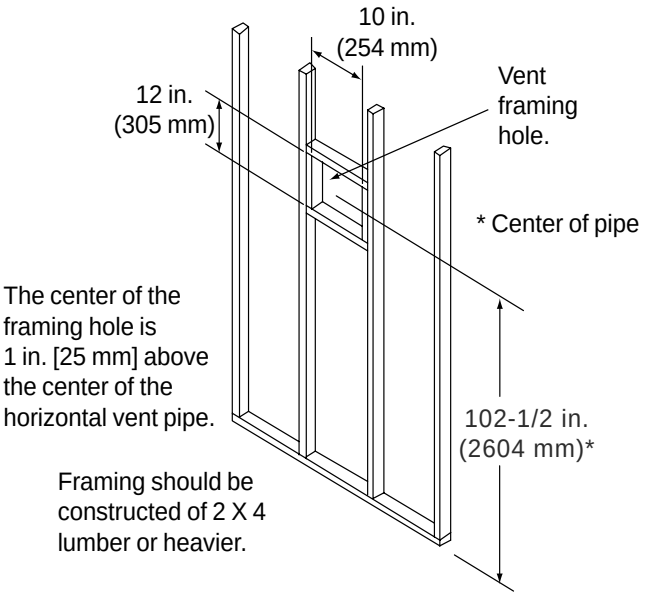


Figure 5.3 Exterior Wall Hole

C. Vertical Penetration Framing

⚠ WARNING

Fire Risk

Keep loose materials or blown insulation from touching the vent pipe.

- National building codes recommend using attic shield to keep loose materials/blown insulation from contacting vent.
- Hearth & Home Technologies requires the use of an attic shield.

Install the Ceiling Firestop

- Frame an opening 10 in. by 10 in. whenever the vent system penetrates a ceiling/floor (see Figure 5.4).
- Frame the area with the same sized lumber as used in ceiling/floor joist.
- When installing a top vent vertical termination appliance the hole should be directly above the appliance, unless the flue is offset.
- Do not pack insulation around the vent. Insulation must be kept away from the pipe.

Note: An additional ceiling firestop is not required if attic insulation shield is used.

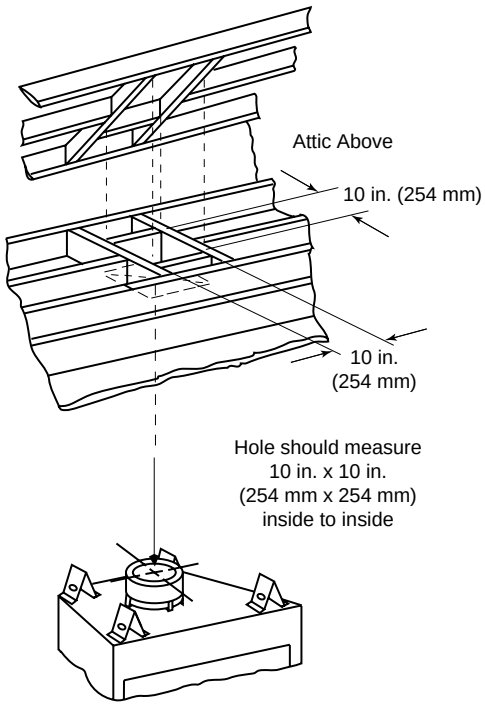


Figure 5.4 Installing Ceiling Firestop

Install Attic Insulation Shield

Attic shields are required to keep insulation and other combustible materials away from the vent pipe. Shields may be field constructed of minimum thickness of 26 gauge steel or purchased from Hearth & Home Technologies. (See reference section, Vent Components for part number.) They must be secured in place to prevent displacement and maintain minimum clearance requirements. To install the HHT attic insulation shield:

- Frame opening for attic insulation shield.
- Attic insulation shield may be installed above or below ceiling (see Figure 5.5).
- Secure with three fasteners on each side.
- Fold tabs at top of attic shield in toward vent pipe. Tabs must keep vent pipe centered within shield.
- Field construct additional shield height if insulation is deeper than height of attic shield.

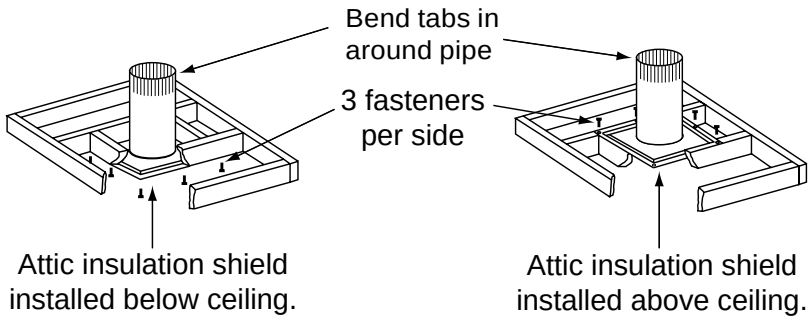


Figure 5.5 Installing the Attic Insulation Shield

D. Construct the Appliance Chase

A chase is a vertical boxlike structure built to enclose the gas appliance and/or its vent system. Vertical vents that run on the outside of a building may be, but are not required to be, installed inside a chase.

Construction of the chase may vary with the type of building. These instructions are not substitutes for the requirements of local building codes. Local building codes MUST be checked.

Chases should be constructed in the manner of all outside walls of the home to prevent cold air drafting problems. The chase should not break the outside building envelope in any manner.

Walls, ceiling, base plate and cantilever floor of the chase should be insulated. Vapor and air infiltration barriers should be installed in the chase as per regional codes for the rest of the home. Additionally, in regions where cold air infiltration may be an issure, the inside surfaces should be sheetrocked and taped (or the use of an equivalent method) for maximum air tightness.

To further prevent drafts, the ceiling firestops should be caulked with high temperature caulk to seal gaps. Gas line holes and other openings should be caulked with high temperature caulk or stuffed with unfaced insulation. If the appliance is being installed on a cement slab, a layer of plywood may be placed underneath to prevent conducting cold up into the room.

⚠ WARNING

Fire Risk

- Construct chase to all clearance specifications in manual.
- Locate and install appliance to all clearance specifications in manual.

6 Vent Information and Diagrams

A. Vent Table Key

The abbreviations listed in this vent table key are used in the vent diagrams.

Symbol	Description
V_1	First section (closest to appliance) of vertical length
V_2	Second section of vertical length
H_1	First section (closest to appliance) of horizontal length
H_2	Second section of horizontal length

⚠ WARNING

Fire Risk
Explosion Risk
Asphyxiation Risk

Do NOT connect this gas appliance to a chimney flue serving a separate solid-fuel or gas burning appliance.

- Vent this appliance directly outside.
- Use separate vent system for this appliance.

May impair safe operation of this appliance or other appliances connected to the flue.

B. Use of Elbows

CAUTION

ALL vent configuration specifications MUST be followed.

- This product is tested and listed to these specifications.
- Appliance performance will suffer if specifications are not followed.

Diagonal runs have both vertical and horizontal vent aspects when calculating the effects. Use the rise for the vertical aspect and the run for the horizontal aspect (see Figure 6.1).

Two 45° elbows may be used in place of one 90° elbow. On 45° runs, 1 ft of diagonal is equal to 8-1/2 in. horizontal run and 8-1/2 in. vertical run. A length of straight pipe is allowed between two 45° elbows (see Figure 6.1).

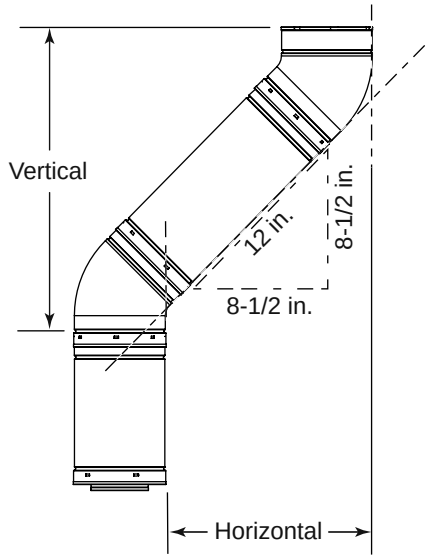
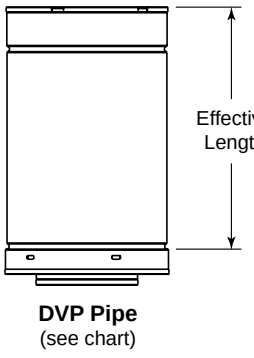


Figure 6.1 Using Two 45° Elbows

C. Measuring Standards

Vertical and horizontal measurements listed in the vent diagrams were made using the following standards.

- Pipe measurements are shown using the effective length of pipe (see Figure 6.2).
- Measurements are made from the appliance outer wrap, not from the standoffs.
- Horizontal terminations are measured to the outside mounting surface (flange of termination cap) (see Figure 4.1).
- Vertical terminations are measured to top of last pipe before termination cap.
- Horizontal pipe installed level with no rise.



Pipe	Effective Length
DVP4	4 in. (102 mm)
DVP6	6 in. (152 mm)
DVP12	12 in. (305 mm)
DVP24	24 in. (610 mm)
DVP36	36 in. (914 mm)
DVP48	48 in. (1219 mm)
DVP6A	3 to 6 in. (76 to 152 mm)
DVP12A	3 to 12 in. (76 to 305 mm)
DVP12MI	3 to 12 in. (76 to 305 mm)
DVP24MI	3 to 24 in. (76 to 610 mm)

Figure 6.2 DVP Pipe Effective Length

D. Vent Diagrams

⚠ WARNING

Fire Risk
Explosion Risk

Do NOT pack insulation or other combustibles between firestops.

- ALWAYS maintain specified clearances around venting and firestop systems.
- Install wall shield firestops and ceiling firestops as specified.

Failure to keep insulation or other material away from vent pipe may cause fire.

The first 90° elbow MUST be a starter elbow.

General Rules:

- SUBTRACT 3 ft (914 mm) from the total H measurement for each 90° elbow installed horizontally.
  SUBTRACT 1-1/2 ft (457 mm) from the total H measurement for each 45° elbow installed horizontally.
- A maximum of three 90° elbows (or six 45° elbows) may be used in any vent configuration. Some elbows may be installed horizontally. See Figure 6.6.
- Elbows may be placed back to back anywhere in the system as long as the first 90° elbow is a starter elbow except as shown in Figure 6.4.
- When penetrating a combustible wall, a wall shield firestop must be installed.
- When penetrating a combustible ceiling, a ceiling firestop must be installed.
- Horizontal runs of vent do not require vertical rise; horizontal runs may be level.

Top Vent—Horizontal Termination—One Elbow

Table 6.1

V1 Min.	V1 Max.	H1 Max.
3 ft (.91 m)	-	1.5 ft (.46 m)
4 ft (1.22 m)	-	6 ft (1.83 m)
5 ft (1.52)	-	11 ft (3.35 m)
6 ft (1.83 m)	-	13 ft (3.96 m)
7 ft (2.13 m)	-	15 ft (4.57 m)
10 ft (3.05 m)	25 ft (7.62 m)	20 ft (6.10 m)

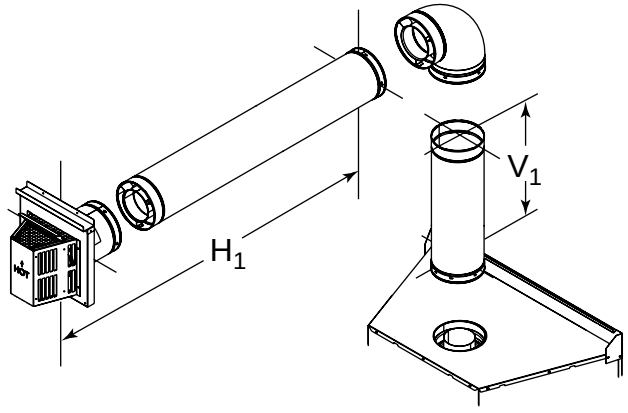


Figure 6.3 Top Vent-Horiztonal Termination-One Elbow

Top Vent—Horizontal Termination—Two 45° Elbows

Installation requirements to replace the first 90° elbow with two 45° elbows:

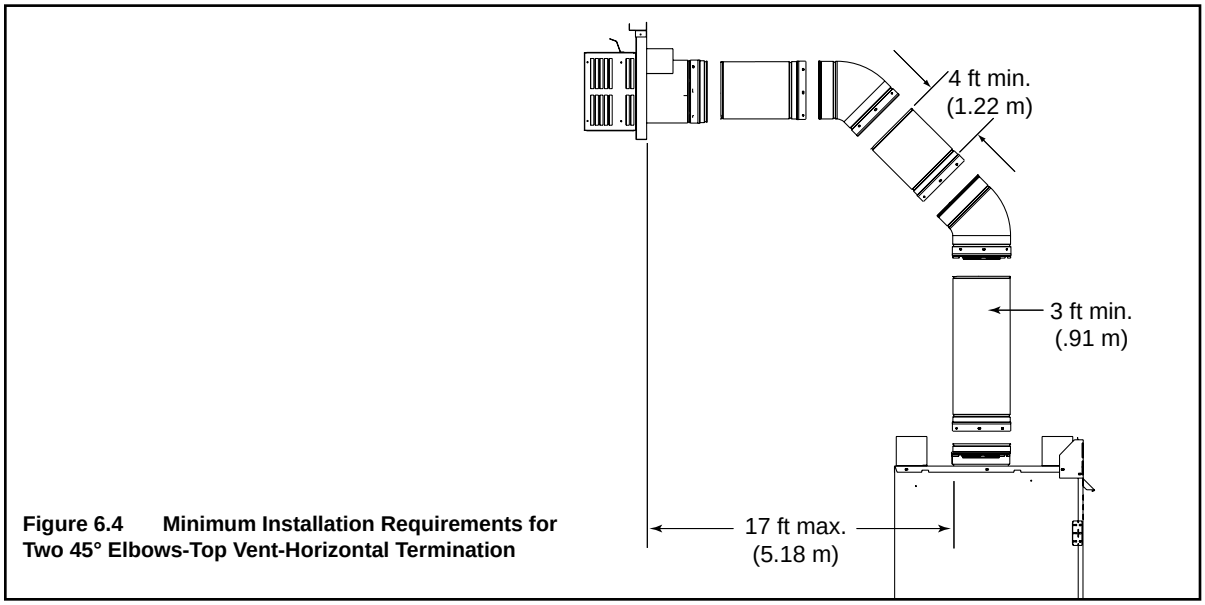


Figure 6.4 Minimum Installation Requirements for Two 45° Elbows-Top Vent-Horizontal Termination

Top Vent—Horizontal Termination—Three Vertical Elbows

See Figure 6.6 for information about installing elbows horizontally.

Table 6.2

V1	H1	V2	H2
3 ft (.91 m)	3 ft (.91 m)	4 ft (1.22 m)	4 ft (1.22 m)
6 ft (1.83 m)	8 ft (2.45 m)	8 ft (2.45 m)	12 ft (3.66 m)

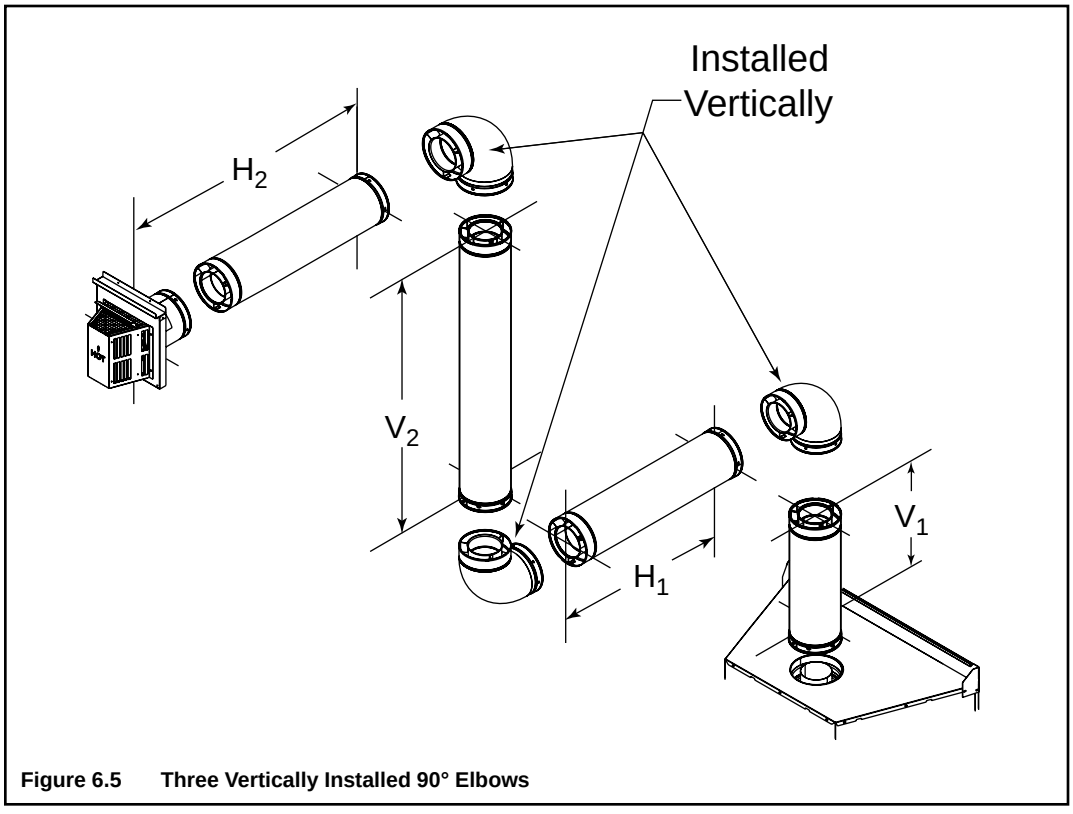


Figure 6.5 Three Vertically Installed 90° Elbows

Top Vent—Vertical Termination—No Elbows

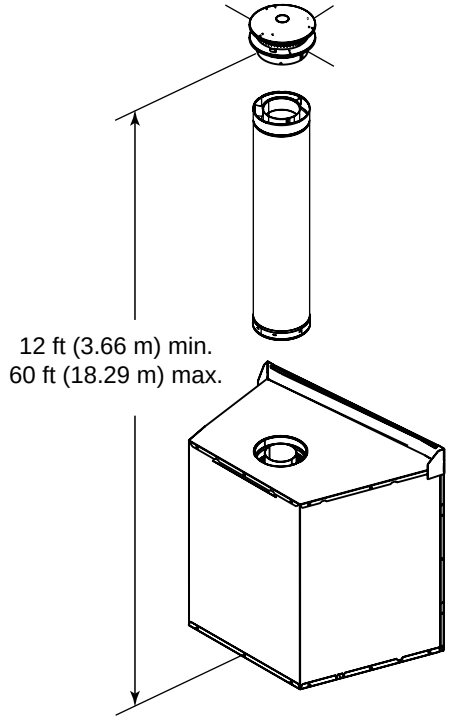


Figure 6.6 Vertical Termination - No Elbows

Top Vent—Vertical Termination—Two Elbows

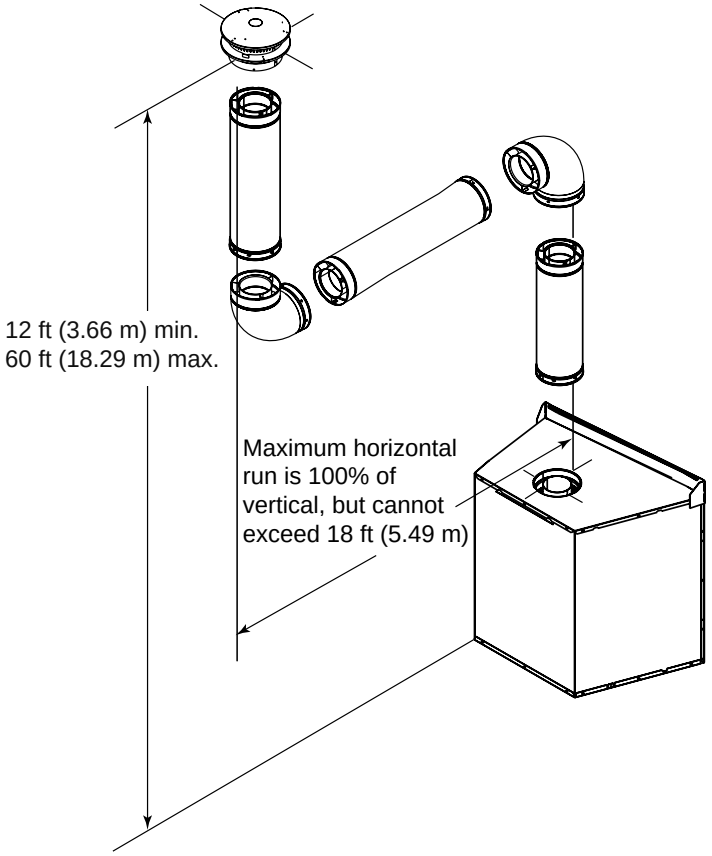


Figure 5.7 Vertical Termination - Two Elbows

7 Appliance Preparation

A. Securing and Leveling the Appliance

⚠ WARNING

Fire Risk!

- Prevent contact with sagging, loose insulation.
- Do NOT install against combustible materials such as exposed insulation, insulation backer or plastic.

CAUTION

Sharp Edges

- Wear protective gloves and safety glasses during installation.

The diagram shows how to properly position, level, and secure the appliance.

- Place the appliance into position.
- Level the appliance from side to side and front to back.
- Shim the appliance as necessary. It is acceptable to use wood shims.
- Secure the appliance to the floor using nails or screws through the nailing flanges.

Note: The bottom of the door frame at time of installation will be flush with the bottom of the unit. Keep floor or hearth covering flush with the bottom of the unit or the door will not fit on the unit.

⚠ WARNING

Fire Risk

- ALWAYS maintain specified clearances around the appliance.
- Do NOT notch into the framing around the appliance spacers.

Failure to keep insulation or other materials away from vent pipe may cause fire.

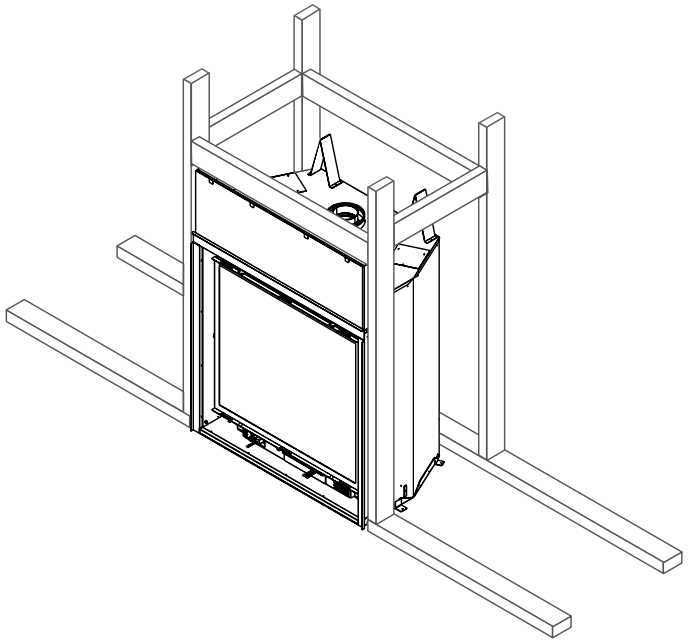


Figure 7.1 Proper Positioning, Leveling and Securing of an Appliance

CAUTION

Do NOT notch into the framing around the appliance spacers.

8 Installing Vent Pipe

A. Assemble Vent Sections

⚠ WARNING

Fire Risk
Exhaust Fumes Risk

- Overlap pipe slip sections at least 1-1/2 in.
- Use pilot holes for screws.
- Screws must not exceed 1 in. long.
- Pipe may separate if not properly joined.

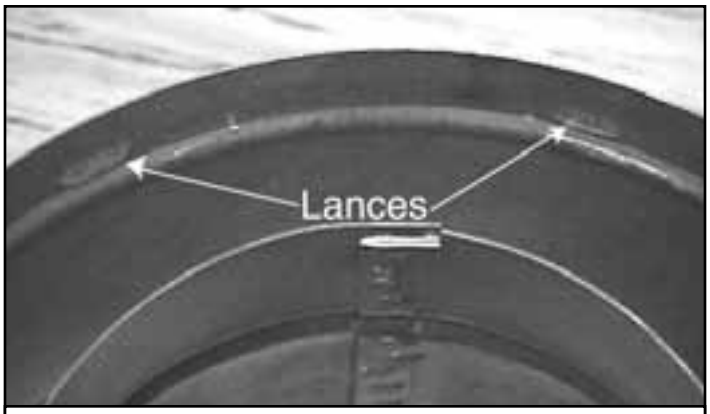


Figure 8.1 Lances

Attaching Vent to the Firebox Assembly

To attach the first pipe section to the collars, slide the male end of the inner vent of the pipe section over the inner collar on the firebox assembly. At the same time, slide the outer flue over the outer collar on the appliance. Push the pipe section into the appliance collar until all the lances (see Figure 8.1) have snapped in place. Tug slightly on the section to confirm it has completely locked into place.

Assemble Pipe Sections

Insert the inner flue of section A into the flared inner flue of section B.

Start the outer flue of section A over the outer flue of section B (see Figure 8.2).

Note: The end of the pipe sections with the lances/tabs on it will face towards the appliance.

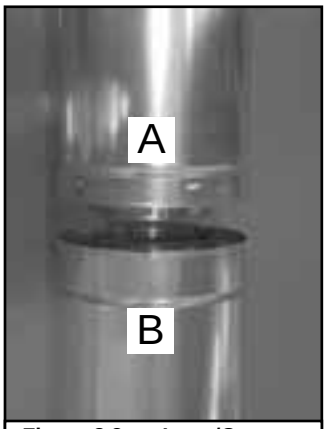


Figure 8.2 Inner/Outer

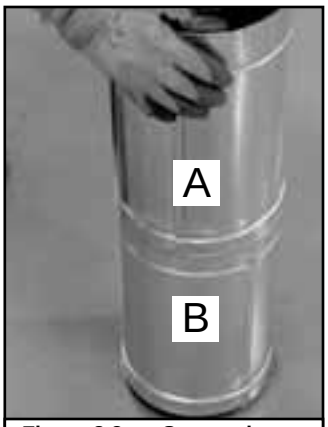
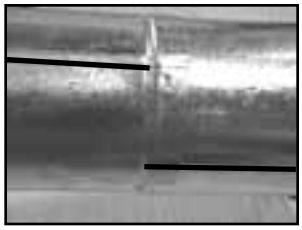


Figure 8.3 Snapped

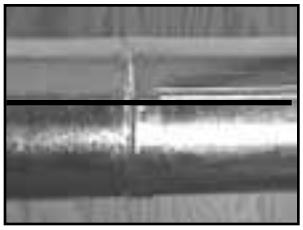
Once both inner and outer flues are started, press section A onto section B firmly until all lances have snapped into place. Check to make sure they have snapped together (see Figure 8.3) and the seams are not aligned (see Figure 8.4). Tug slightly on section A to confirm it has completely locked into place. It is acceptable to use screws no longer than 1 in. (25 mm) to hold outer pipe sections together. If predrilling holes, do NOT penetrate inner pipe.

For 90° and 45° elbows that are changing the vent direction from horizontal to vertical, one screw minimum should be put in the outer flue at the horizontal elbow joint to prevent the elbow from rotating. Use screws no longer than 1 in. (25 m). If predrilling holes, do NOT penetrate inner pipe.

Make sure the seams are not aligned to prevent unintentional disconnection.



CORRECT



INCORRECT

Figure 8.4 Seams

Assemble Minimum Installation (MI) Sections

MI sections are non-unitized so that they can be cut to a specific length. Cut these sections to length from the non-expanded end (see Figure 8.5).

They can then be attached by first connecting the expanded end of the MI inner flue with the inner pipe from the adjacent pipe section and securing with three screws. The expanded portion of the MI inner flue must overlap completely with the unexpanded end of the adjacent pipe section.

The outer flue can then be inserted into the adjacent outer flue expanded end and attached to the next pipe section with three screws. The other end of the MI pipe section can then be attached by fitting another pipe section to it and snapping it together, as normal.

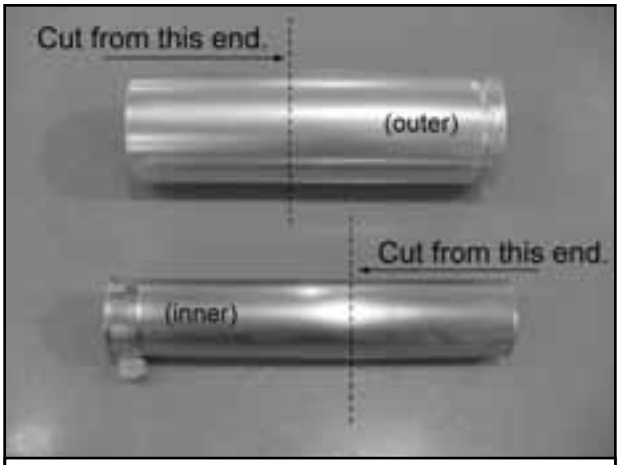


Figure 8.5 MI Sections

Assemble Slip Sections

The outer flue of the slip section should slide over the outer flue of the pipe section and into (inner flue) the last pipe section (see Figure 8.6).

Slide together to the desired length, making sure that a 1-1/2 in. outer flue overlap is maintained between the pipe section and slip section.

The pipe and slip section need to be secured by driving two screws through the overlapping portions of the outer flues using the pilot holes (see Figure 8.7).

This will secure the slip section to the desired length and prevent it from separating. The slip section can then be attached to the next pipe section.

If the slip section is too long, the inner and outer flues of the slip section can be cut to the desired length.

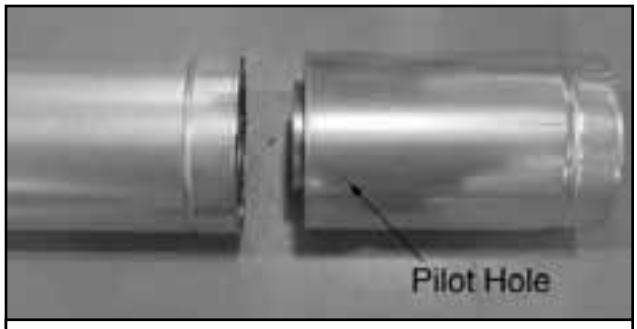


Figure 8.6 Slip Section Pilot Holes

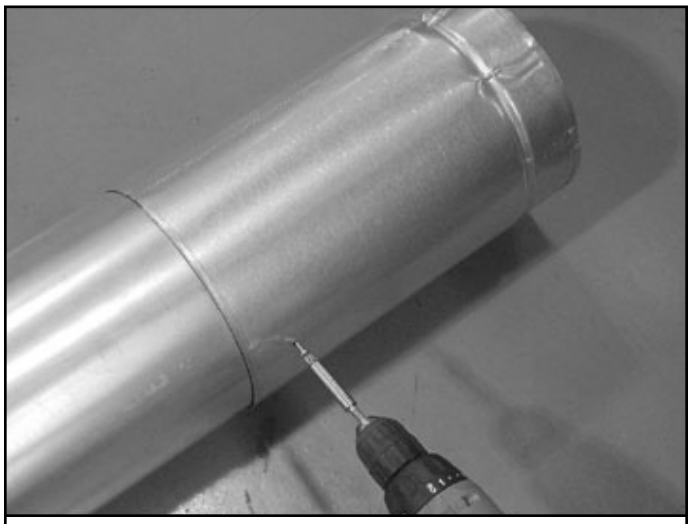


Figure 8.7 Screws into Slip Section

Secure the Vent Sections

Vertical sections of pipe must be supported every 8 ft after the 25 ft maximum unsupported rise. The vent support or plumber's strap (spaced 120° apart) may be used to do this (see Figures 8.8 and 8.9).

Horizontal sections of vent must be supported every 5 ft with a vent support or plumber's strap.

B. Disassemble Vent Sections

To disassemble any two pieces of pipe, rotate either section (see Figure 8.10), so that the seams on both pipe sections are aligned (see Figure 8.11). They can then be carefully pulled apart.

⚠ WARNING

Fire Risk
Explosion Risk
Asphyxiation Risk

Use vent run supports per installation instructions.

Connect vent sections per installation instructions

- Maintain all clearances to combustibles.
- Do NOT allow vent to sag below connection point to appliance.

Improper support may allow vent to sag or separate.

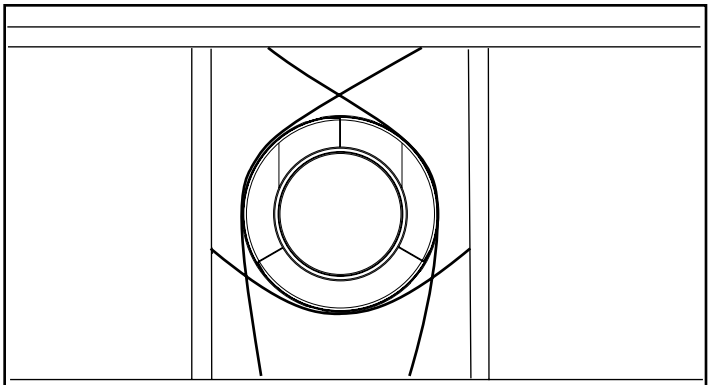


Figure 8.8 Securing Vertical Pipe Sections

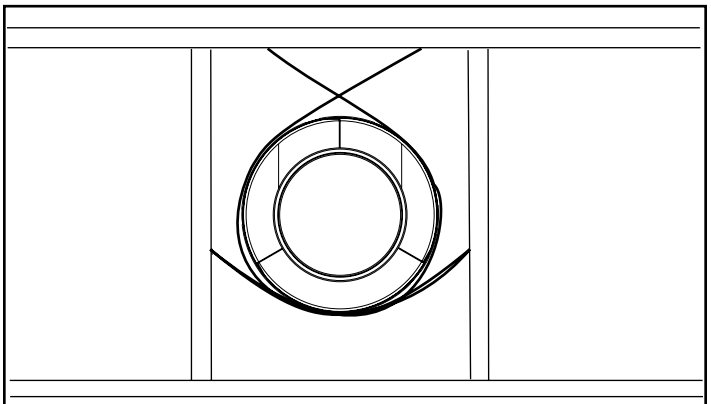


Figure 8.9 Securing Horizontal Pipe Sections

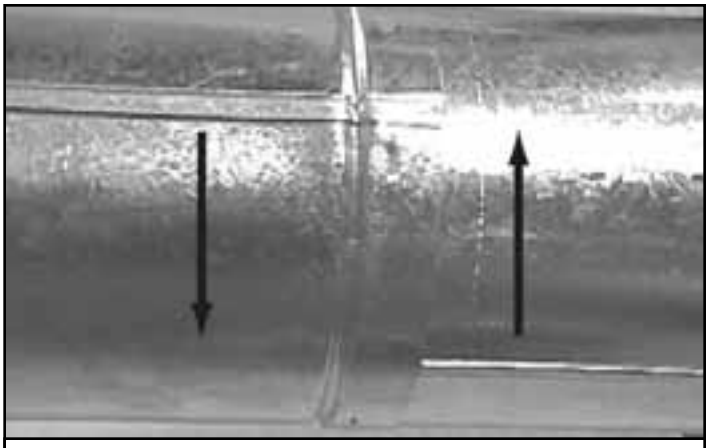


Figure 8.10 Rotate Seams for Disassembly

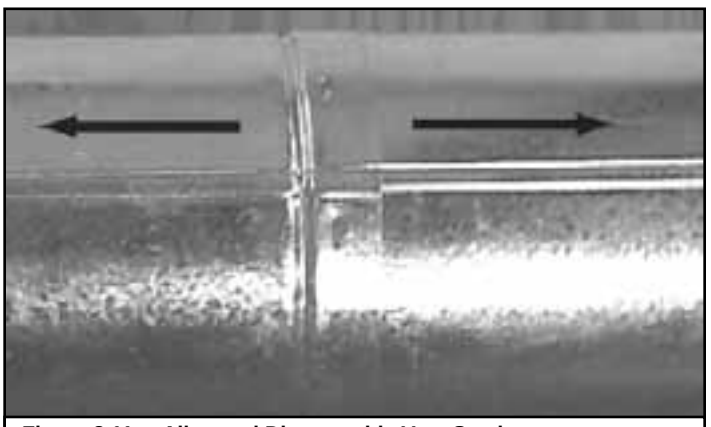


Figure 8.11 Align and Disassembly Vent Sections

C. Install the Heat Shield and Horizontal Termination Cap

⚠ WARNING

Fire Risk

Impaired performance of appliance.

- Telescoping flue section of termination cap MUST be used when connecting pipe section to termination cap.
- Maintain a 1-1/2 in. minimum overlap on telescoping flue section of termination cap.

⚠ WARNING

Fire Risk

Exhaust Fumes Risk

Impaired performance of appliance.

- Overlap pipe slip sections at least 1-1/2 in.
- Use pilot holes for screws.
- Screws must not exceed 1 in. long.
- Pipe may separate if not properly joined.

A. Heat Shield Requirements for Horizontal Termination

For all horizontally vented appliances, a heat shield MUST be placed 1 in. (25 mm) above the top of the vent between the wall shield firestop and the base of the termination cap.

There are two sections of the standard heat shield. One section is factory-attached to the wall shield firestop. The other section is factory-attached to the cap. See Figure 3.1.

If the wall thickness does not allow the required 1-1/2 in. (38 mm) heat shield overlap when installed, an extended heat shield must be used.

Imporant Notice: Heat shields may NOT be field constructed.

The extended heat shield may need to be cut to length. You will attach the cut heat shield to the existing cap heat shield or wall shield firestop heat shield (refer to Figure 3.1) using the supplied screws. You MUST maintain a 1-1/2 in. (38 mm) overlap of the extended heat shield and the existing shields (both ends of the heat shield). The small leg on the extended heat shield should rest on the top of the vent (pipe section) to properly space it from the pipe section.

Install the Horizontal Termination Cap

Vent termination must not be recessed in the wall. Siding may be brought to the edge of the cap base.

Flash and seal as appropriate for siding material at outside edges of cap.

When installing a horizontal termination cap, follow the cap location guidelines as prescribed by current **ANSI Z223.1/ NFPA 54** or **Natural Gas and Propane Installation Code, CSA B149.1** and **CAN/CGA-B149** installation codes.

⚠ WARNING

Burn Risk

- Local codes may require installation of a cap shield to prevent anything or anyone from touching the hot cap.

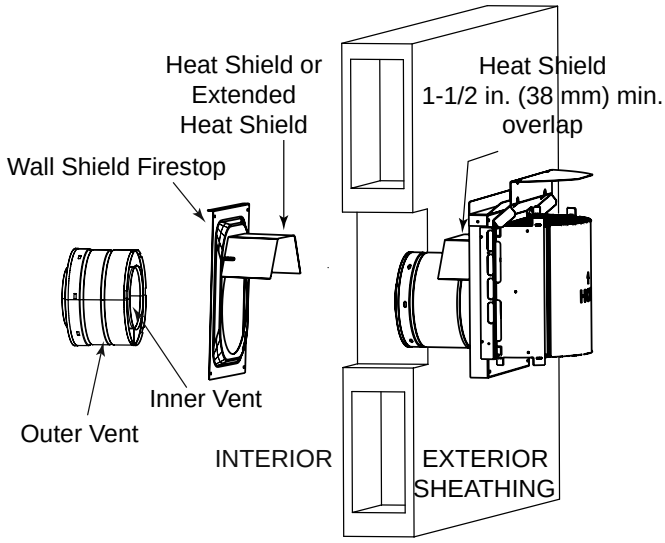


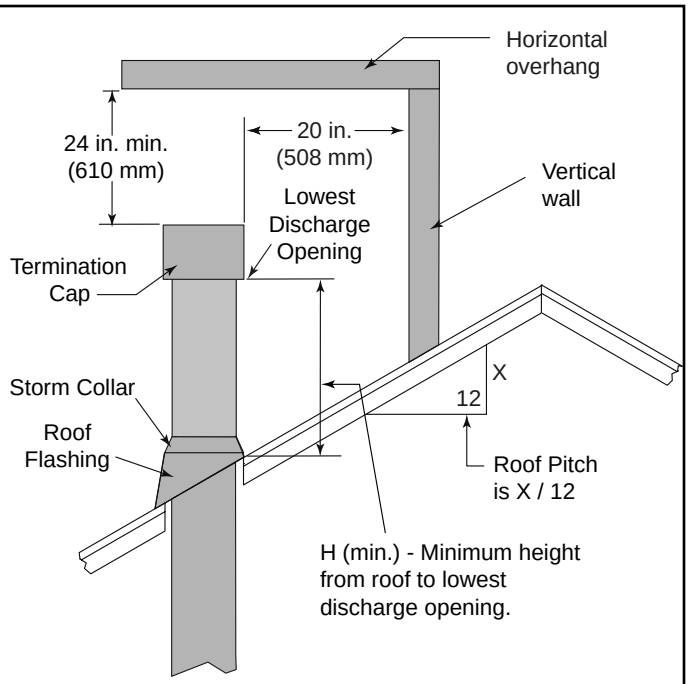
Figure 8.12 Venting through the Wall

Note: Where required, an exterior wall flashing is available. When penetrating a brick wall, a brick extension kit is available for framing the brick.

D. Install Roof Flashing and Vertical Termination Cap

To install roof flashing see Figures 8.13 and 8.14.

For installation of vertical termination cap see minimum vent heights for various pitched roofs (Figure 8.13) .



Roof Pitch	H (Min.) Ft.	Roof Pitch	H (Min.) Ft.
Flat to 6/12	1.0*	Over 11/12 to 12/12	4.0
Over 6/12 to 7/12	1.25*	Over 12/12 to 14/12	5.0
Over 7/12 to 8/12	1.5*	Over 14/12 to 16/12	6.0
Over 8/12 to 9/12	2.0*	Over 16/12 to 18/12	7.0
Over 9/12 to 10/12	2.5	Over 18/12 to 20/12	7.5
Over 10/12 to 11/12	3.25	Over 20/12 to 21/12	8.0

* 3 ft. minimum in snow regions

Figure 8.13 Minimum Height from Roof to Lowest Discharge Opening

⚠ WARNING

Fire Risk
Explosion Risk

Inspect external vent cap regularly.

- Ensure no debris blocks cap.
- Combustible materials blocking cap may ignite.
- Restricted air flow affects burner operation.

Caulk the gap between the roof flashing and the outside diameter of the pipe. Caulk the perimeter of the flashing where it contacts the roof surface. See Figure 8.14.

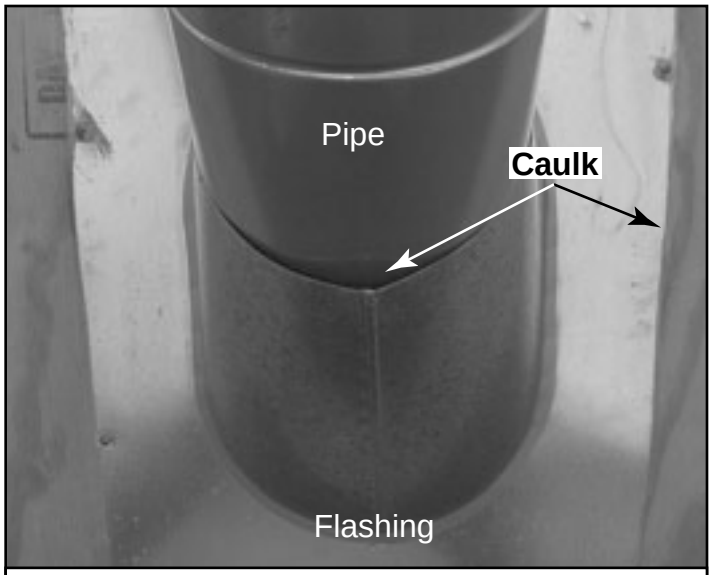


Figure 8.14 Caulk the Gap

To attach the vertical termination cap, slide the inner collar of the cap into the inner flue of the pipe section and place the outer collar of the cap over the outer flue of the pipe section.

Secure with three screws into the outer flue. Secure the cap by driving the three self-tapping screws (supplied) through the pilot holes in the outer collar of the cap into the outer flue of the pipe (see Figure 8.15).

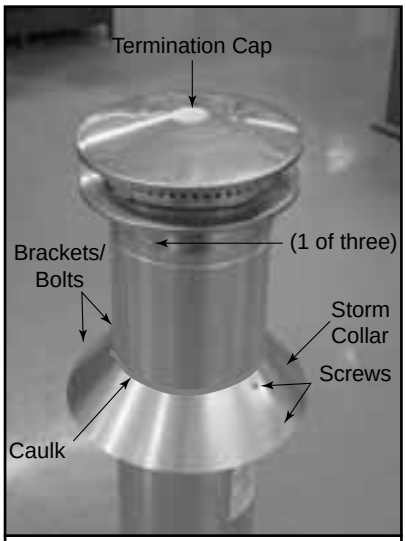


Figure 8.15 Secure with Screws

E. Assemble and Install Storm Collar

CAUTION

Sharp Edges!

- Wear protective gloves and safety glasses during installation.

Connect both halves of the storm collar with two screws (see Figure 8.16).

Wrap the storm collar around the exposed pipe section and align brackets. Insert a bolt (provided) through the brackets and tighten the nut to complete the storm collar assembly. Make sure the collar is tight against the pipe section. See Figure 8.17.

Slide the assembled storm collar down the pipe section until it rests on the roof flashing.

Caulk around the top of the storm collar (see Figure 8.15).

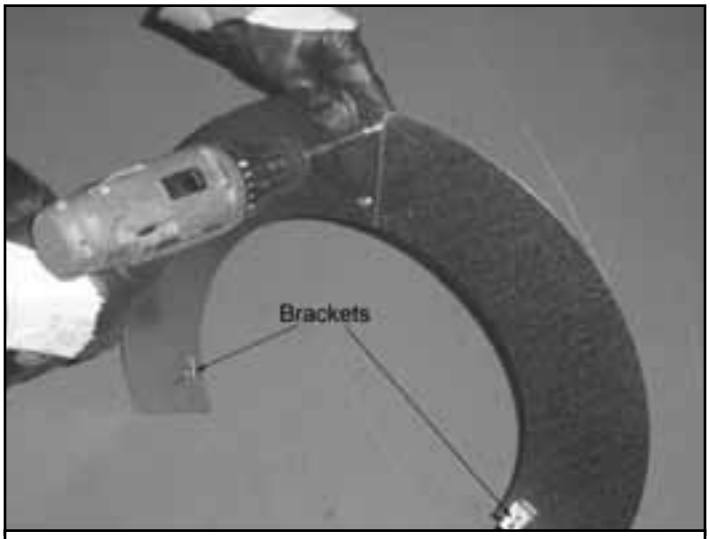


Figure 8.16 Assembling the Storm Collar

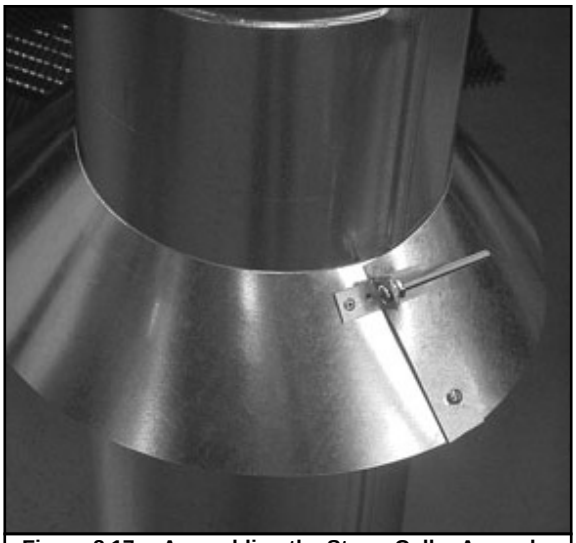


Figure 8.17 Assembling the Storm Collar Around the Pipe

9 Gas Information

A. Fuel Conversion

Before making gas connections ensure appliance being installed is compatible with the available gas type.

Any natural or propane gas conversions necessary to meet the appliance and locality needs must be made by a qualified technician using Hearth & Home Technologies specified and approved parts.

Converting to LP Gas

Note: Gas conversions should only be performed by a qualified service person, and/or where required by state and local codes, licensed installer/service technician. In the Commonwealth of Massachusetts, installation must be performed by a licensed plumber or gas fitter.

Kit contents:
Pilot injector #35
Burner orifice
Red pin
Conversion Label

Tools Required:
#2 phillips screwdriver
Straight screwdriver
5/32 allen wrench
3/8 & 11/16 wrenches

- Turn control knob on the valve to OFF position.
- Remove glass assembly (see Figure 12.1)
- (Remove logs, grate, and ember bed if already installed.)
- Remove 2 screws holding pilot bracket to burner. See Figure 9.1.

Figure 9.1 Remove Pilot Screws

- Remove 4 screws holding Burner in place and remove burner. See Figure 9.2.

Figure 9.2 Remove Burner Screws

- Using a 3/8 wrench, unscrew and remove rear orifice and discard. See Figure 9.3.

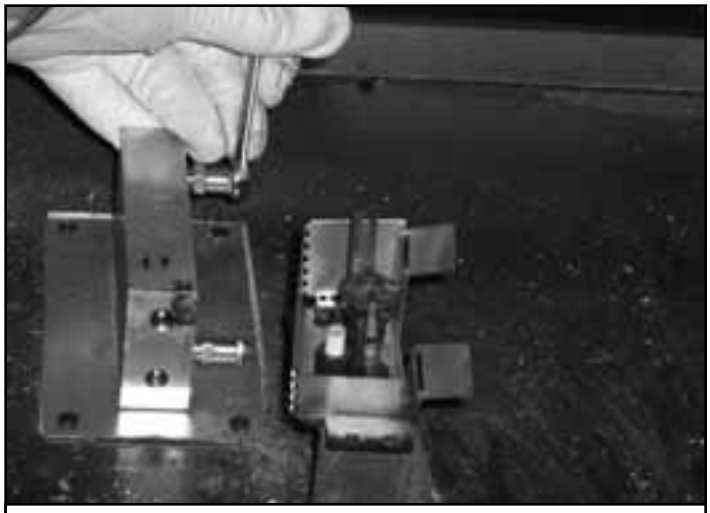


Figure 9.3 Remove Burner Orifice

- Unscrew and remove front orifice #46 and install in rear.
- Install new orifice #56 in front.
- Open air shutters to fully open. See Figure 9.4.
- Replace burner and screws holding it in place.

Figure 9.4 Adjusting Air Shutter

- Replace 2 screws holding pilot bracket to burner.
- Pull hood keeper from pilot and lift hood off pilot assembly. See Figure 9.5.

Figure 9.5 Remove Pilot Hood

Note: Do not remove retaining clip from the hood.

- Remove #62 pilot injector using 5/32 allen wrench and replace with #35 LP orifice.

Figure 9.6 Remove Pilot Injector

- Replace hood and keeper.
- Install Ember Bed, Grate, and Logs.
- Install Glass Assembly.
- Loosen locknut on the Hi-Lo Solenoid using 11/16 wrench.
- Remove solenoid from the valve by turning counterclockwise.
- Use a screwdriver and turn pressure screw clockwise ¾ turn.
- Attach manometer to outlet side of the valve.
- Light unit.
- Fine tune pressure with screwdriver.
- Replace the blue pin with the red pin and screw solenoid onto the valve.
- Continue turning solenoid until pressure is 10.
- Tighten locknut on the Solenoid so it will not loosen.

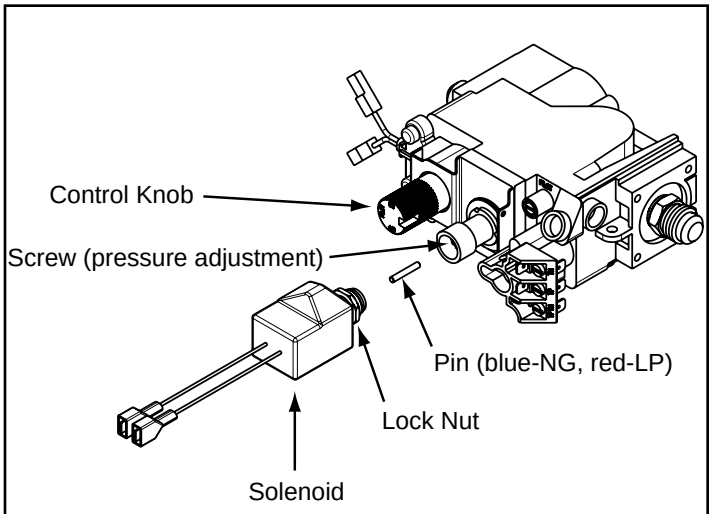


Figure 9.7 Valve Components

- Install identification label near the valve. See Figure 9.8.

44CKP **44CKN**

THIS PLATE MUST BE AFFIXED AS CLOSE AS POSSIBLE TO THE EXISTING RATING PLATE.

THE FOLLOWING MUST BE COMPLETED BY THE INDIVIDUAL CONVERTING THIS APPLIANCE:

THIS APPLIANCE HAS BEEN CONVERTED TO _____FUEL, FRONT ORIFICE _____, REAR ORIFICE _____, MANIFOLD PRESSURE _____, AND INPUT _____, ON _____ (date), WITH KIT # 44CKP, 44CKN (circle one), BY (name & address of organization making this conversion)

_____

_____

_____

WHO ACCEPTS THE RESPONSIBILITY FOR THE CORRECTNESS OF THIS CONVERSION.

4051-304A

Figure 9.8 Identification Label

B. Gas Pressure

Proper input pressures are required for optimum appliance performance. Gas line sizing requirements need to be made following **NFPA51**.

⚠ WARNING

Fire Risk
Explosion Risk

High pressure will damage valve.

- Disconnect gas supply piping BEFORE pressure testing gas line at test pressures above 1/2 psig.
- Close the manual shutoff valve BEFORE pressure testing gas line at test pressures equal to or less than 1/2 psig.

⚠ WARNING

Fire Risk
Explosion Risk

Verify inlet pressures.

- High pressure may cause overfire condition.
- Low pressure may cause explosion.
- Verify minimum pressures when other household gas appliances are operating.

Install regulator upstream of valve if line pressure is greater than 1/2 psig.

Pressure requirements for appliance are shown in table below. Minimum pressures must be met when other household gas appliances are operating.

Pressure	Natural Gas	Propane
Minimum Inlet Pressure	5.0 in. w.c.	11.0 in. w.c.
Maximum Inlet Pressure	7.0 in. w.c.	14.0 in. w.c.
Manifold Pressure	3.5 in. w.c.	10.0 in. w.c.

C. Gas Connection

The appliance and its appliance main gas valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psi (3.5 kPa).

The appliance must be isolated from the gas supply piping system by closing its equipment shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi (3.5 kPa).

Note: Have the gas supply line installed in accordance with local building codes, if any. If not, follow **ANSI 223.1**. Installation should be done by a qualified installer approved and/or licensed as required by the locality. (In the Commonwealth of Massachusetts installation must be performed by a licensed plumber or gas fitter.)

Note: A listed (and Commonwealth of Massachusetts approved) 1/2 in. (13 mm) T-handle manual shut-off valve and flexible gas connector are connected to the 1/2 in. (13 mm) control valve inlet.

- If substituting for these components, please consult local codes for compliance.

Note: Gas access is on the left side only.

Refer to Section 16 for location of gas line access in appliance.

⚠ WARNING

Gas Leak Risk

- Support control when attaching pipe to prevent bending gas line.

Note: The gap between supply piping and gas access hole may be caulked with high temperature caulk or stuffed with non-combustible, unfaced insulation to prevent cold air infiltration.

- Ensure that gas line does not come in contact with outer wrap of appliance. Follow local codes.
- Incoming gas line should be piped into the valve compartment and connected to the 1/2 in. connection on the manual shutoff valve.

⚠ WARNING

Fire Risk

Explosion Risk

- Gas build-up during line purge may ignite.
- Purge should be performed by qualified technician.
- Ensure adequate ventilation.
- Ensure there are no ignition sources such as sparks or open flames.

- A small amount of air will be in the gas supply lines. When first lighting appliance it will take a short time for air to purge from lines. When purging is complete the appliance will light and operate normally.

⚠ WARNING

CHECK FOR GAS LEAKS

Fire Risk

Explosion Risk

Asphyxiation Risk

- Check all fittings and connections.
- Do not use open flame.
- After the gas line installation is complete, all connections must be tightened and checked for leaks with a commercially available, non-corrosive leak check solution. Be sure to rinse off all leak check solution following testing.

Fittings and connections may have loosened during shipping and handling.

⚠ WARNING

Fire Risk

Do NOT change the valve settings.

- This valve has been preset at the factory.
- Changing valve settings may result in fire hazard or bodily injury.

D. High Altitude Installations

U.L. listed gas appliances are tested and approved without requiring changes for elevations from 0 to 2000 ft in the USA and Canada.

When installing this appliance at an elevation above 2000 ft, it may be necessary to decrease the input rating by changing the existing burner orifice to a smaller size. Input rate should be reduced by 4% for each 1000 ft above a 2000 ft elevation in the U.S.A., or 10% for elevations between 2000 and 4500 ft in Canada. If the heating value of the gas has been reduced, these rules do not apply. To identify the proper orifice size, check with the local gas utility.

If installing this appliance at an elevation above 4500 ft (in Canada), check with local authorities.

10 Electrical Information

A. Connecting to the Appliance

Note: This appliance must be electrically wired and grounded in accordance with local codes or, in the absence of local codes, with **National Electric Code ANSI/NFPA 70-latest edition** or the **Canadian Electric Code CSA C221.1.**

CAUTION

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

⚠ WARNING

Shock Risk
Explosion Risk
Do NOT wire 110V to valve.
Do NOT wire 110V to wall switch
- Incorrect wiring will damage millivolt values.

⚠ WARNING

Shock Risk
- Replace damaged wire with type 105° C rated wire.
- Wire must have high temperature insulation.

Note: Thermostat is an optional component.

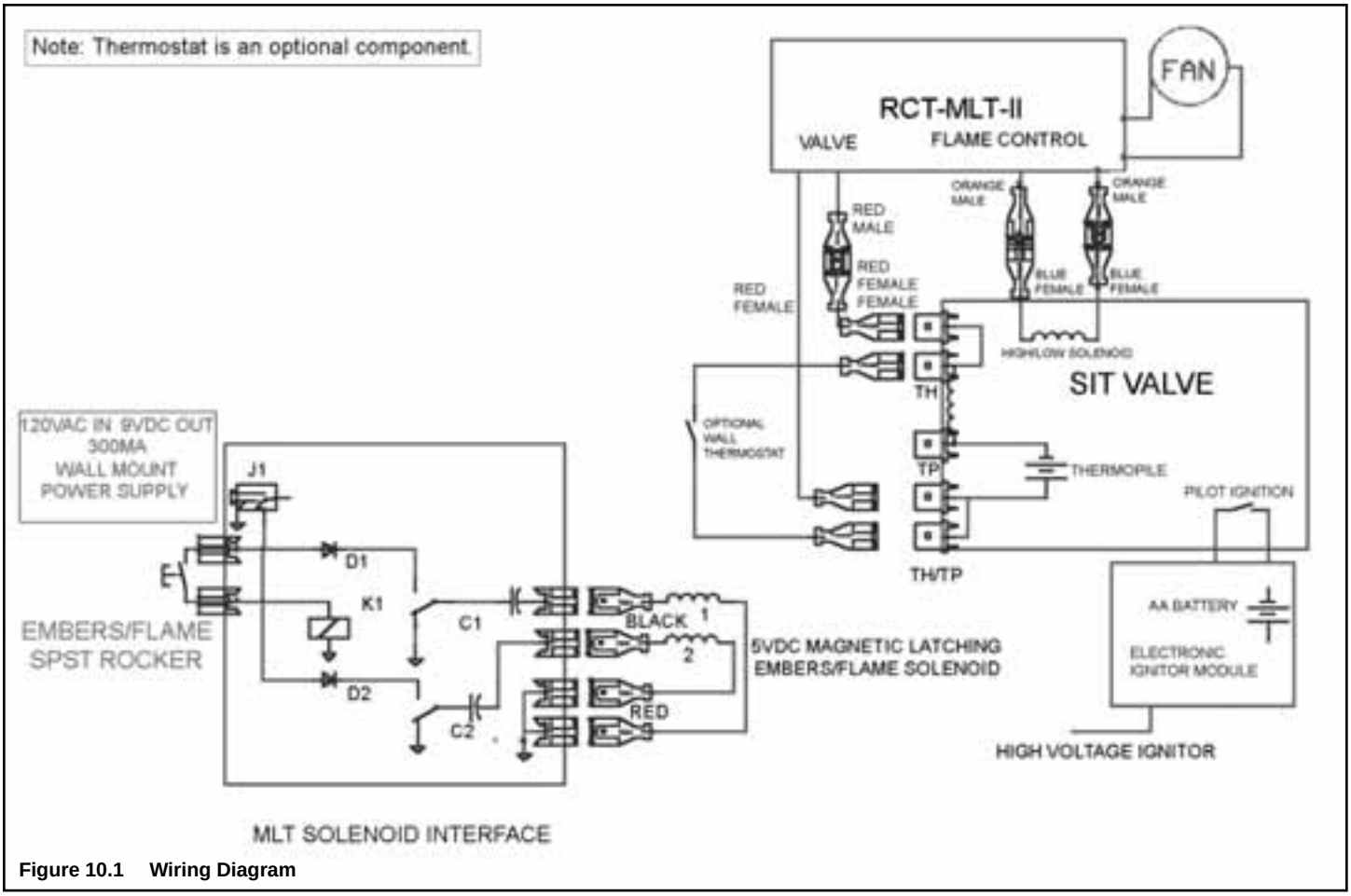


Figure 10.1 Wiring Diagram

B. Junction Box Installation

If the box is being wired from the **OUTSIDE** of the appliance:

- Remove the cover plate located on the outer shell - right side (see Figure 10.3).
- Install the supplied Romex™ connector in the cover plate.
- Feed the necessary length of wire through the connector.
- Make all necessary wire connections and reattach the cover plate to the outer shell.

If the box is being wired from the **INSIDE** of the appliance:

- Remove the screw attaching the junction box/receptacle to the outer shell, rotate the junction box inward to disengage it from the outer shell (see Figure 10.3).
- Pull the electrical wires from outside the appliance through this opening into the valve compartment.
- Feed the necessary length of wire through the connector.
- Make all necessary wire connections to the junction box/receptacle and reassemble the junction box/receptacle to the outer shell.

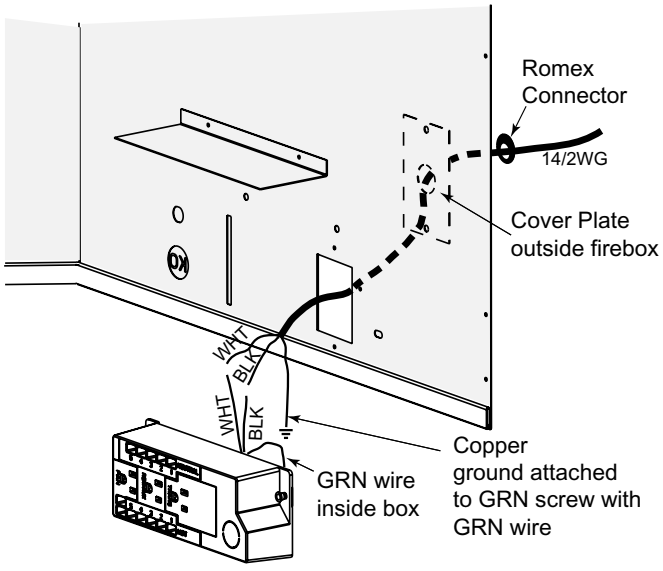


Figure 10.2 Junction Box Detail

11 Finishing

⚠ WARNING

Fire Risk

- Non-combustible materials must be maintained.
- Sheetrock, wood or other combustibles must NOT be used as sheathing or facing in the non-combustible zone.
- Finishing materials must not interfere with operation or air flow of doors or access for service.
- See **Section 11** for proper clearances.
- See **Section 1** for combustible/non-combustible definitions.

⚠ WARNING

Fire Risk

Finish all edges and fronts to clearances and specifications listed in manual.

- Metal appliance front may be covered with non-combustible material only.
- Do NOT overlap combustible materials onto appliance front.
- Install combustible materials up to specified clearances on top, front and sides only.
- Seal joints between the finished wall and appliance top and sides using only a 300° F minimum sealant.

Important Note: The bottom of the door frame at the time of installation will be flush with the bottom of the unit. ***Make sure the floor or hearth extension covering is flush with the bottom of the unit or the door will not fit on the unit***.

A. Facing Material

- Sheetrock/wall material will have been installed (see Figure 11.1) and the joints filled as per Section 3.D.
- If installing doors with an **outside surface fit**, the facing templates should be removed (retain the screws for door installation) and non-combustible facing material less than one inch thick may be brought to the edge of the fireplace opening. Doors will be mounted over the facing material. The door frame is slotted to allow the door to be mounted up to one inch from the surface of the unit.
- If installing doors with a **recessed fit**, facing material must be butted to the flanges of the facing templates to allow doors to fit within the facing material. Once the facing material is in place, the template must be removed (retain the screws for door installation).

B. Facing Template Removal

There is a metal template on each side and across the top of the door opening. See Figure 11.2. If using an inside fit for the doors, do not remove the templates until the facing material is installed. If you choose to use an outside fit, the templates may be removed before installing the facing material.

- Side Templates – Remove the screws from the sides of the door opening and set aside. Remove and discard the template pieces.
- Top Template – Loosen the screws across the top of the opening. Slide the top template out, discard the template and tighten the screws.

C. Door Installation

Refer to Section 12.J.

D. Mantel

The mantel may be constructed with combustible or non-combustible materials as indicated in Figure 11.3

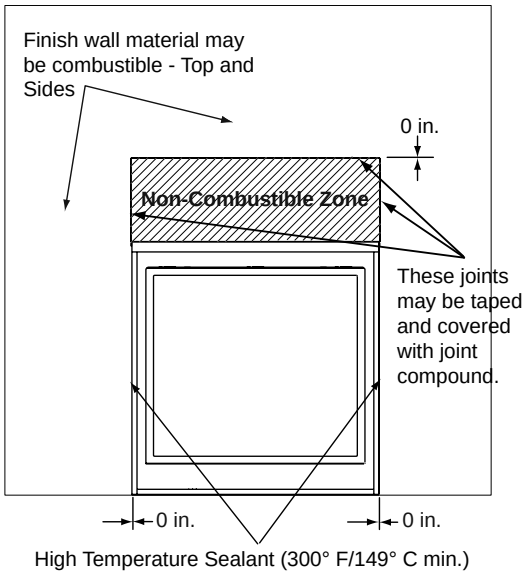

Finish wall material may be combustible - Top and Sides
0 in.
Non-Combustible Zone
These joints may be taped and covered with joint compound.
0 in.
0 in.
High Temperature Sealant (300° F/149° C min.)

Figure 11.1 Noncombustible Facing Diagram

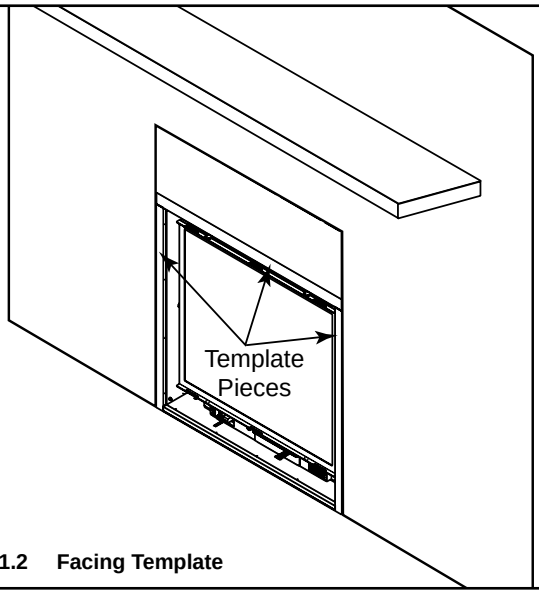


Figure 11.2 Facing Template

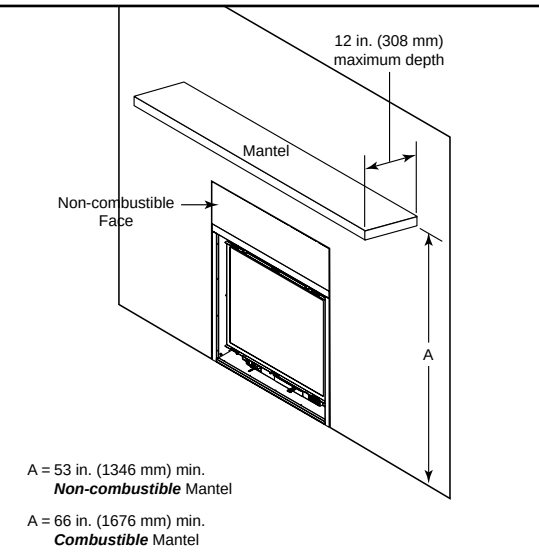

12 in. (308 mm) maximum depth
Mantel
Non-combustible Face
A
A = 53 in. (1346 mm) min. Non-combustible Mantel
A = 66 in. (1676 mm) min. Combustible Mantel

Figure 11.3 Minimum Mantel Heights

12 Appliance Setup

⚠ WARNING

Shock Risk
Fire Risk

Use ONLY optional accessories approved for this appliance.

- Using non-listed accessories voids warranty.
- Using non-listed accessories may result in a safety hazard.
- Only Hearth & Home Technologies approved accessories may be used safely.

A. Remove Glass Assembly

The glass assembly can be removed from the unit by pulling and releasing the glass latches. There are three across the top, three across the bottom, and one in the center of each side.

The glass assembly is heavy. Use caution when removing.

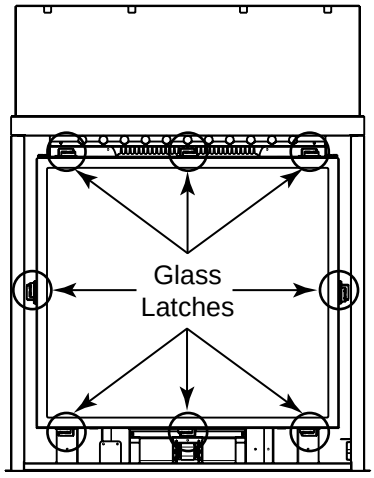


Figure 12.1 Glass Assembly Removal

B. Clean the Appliance

Clean/vacuum any sawdust that may have accumulated inside the firebox or underneath in the control cavity.

C. Install the Refractory

- Remove the refractory retainer from each side of the firebox.
- Put the left side refractory in place and reinstall the left side refractory retainer.

Figure 12.2 Install Left Side Refractory

- Install the lower back refractory.

Figure 12.3 Install Lower Back Refractory

- Install the upper back refractory.

Figure 12.4 Install Upper Back Refractory

- Install the right side refractory.

Figure 12.5 Install Right Side Refractory

- Slide the back refractory slightly from side to side as necessary to close up any gaps in the corners.
- Install the right side refractory retainer.

Note: As you use the appliance, expansion and contraction will cause minor cracking of the refractory. This is normal, unavoidable, and will not affect the performance of the appliance. If the cracks become large enough that the metal behind the refractory is exposed or large pieces fall out, the panels should be replaced.

IMPORTANT! This appliance should be run three to four hours on low on the initial start-up. Turn it off and let it cool completely. Remove and clean the glass. Reinstall the glass and run the appliance for an additional 12 hours. This will help cure the products used in the paint and logs.

D. Adjust the Air Shutter

This appliance has adjustable air shutters (which control the primary air) factory set in the closed position (approximately 1/8 in. open). See Figure 12.6. **If it is necessary to adjust the air shutter to obtain optimal flame appearance, this should be adjusted by a qualified installer.**

Figure 12.6 Adjusting the Air Shutter

E. Adjust the Vertical Baffle

If the vertical run height is more than 12 feet, it may be necessary to install the vertical baffles that are included with the unit to improve the flame appearance. Install each baffle to cover the outside two slots in the lower firebox top. See Figure 12.7.

Figure 12.7 Adjust the Vertical Baffle

F. Install Logs, Ember Bed & Rockwool

- Remove the grate from the hearth by removing the screws.
- Position rear log over the locating tabs at the rear of the hearth pan. See Figure 1285.

Figure 12.8 Positioning Rear Log

- Position ember bed over the burner locating the corners inside the brackets. See Figure 12.9.

Figure 12.9 Positioning Ember Bed

- Position the grate in the recess of the ember bed and attach to the hearth with the screws. See Figure 12.10.

Figure 12.10 Positioning Grate

- Position the cut out on the left front log over the grate bar. See Figure 12.11.

Figure 12.11 Positioning Left Front Log

- Position the right front log over the grate bars, aligning the cut outs on the bottom of the log with the bars. See Figure 12.12

Figure 12.12 Positioning Right Front Leg

- Position the cutout on the bottom of the left log over the locating bracket on the grate. Push the top of the rear log back against the back refractory and position the left log on the flat area of the rear log. See Figure 12.13.

Figure 12.13 Positioning Left Log

- Position the right log over the locating bracket on the grate and position the end on the flat area of the rear log. See Figure 12.14.

Figure 12.14 Positioning Right Log

- Place the end of the right middle log on the flat area on the ember bed and position the hole in the log over the exposed locator pin on the front log. See Figure 12.15.

Figure 12.15 Positioning Right Middle Log

- Place the end of the left middle log on the flat area of the ember bed and position the hole in the log over the exposed locator pin on the front log. See Figure 12.16.

Figure 12.16 Positioning Left Middle Log

- Place individual pieces of wool loosely in the ember bed slots. Do not block the burner ports by packing tightly.

Figure 12.17 Placing Rockwool

⚠ WARNING

Explosion Risk

- Follow rockwool placement instructions in this manual.
- Do NOT place rockwool directly over burner ports.
- Replace rockwool material annually.

Improperly placed rockwool interferes with proper burner operation.

G. Install Andirons

Install andirons with the screws provided. See Figure 12.18.

Figure 12.18 Installing Andirons

H. Place Lava Rock

- Cover the visible area of the metal hearth pan around the Ember Bed with a layer of Lava Rock.

Figure 12.19 Placing Lava Rock

I. Reinstall Glass

- Reinstall glass by reversing steps in Section 12.A.

⚠ WARNING

Handle glass doors with care.

- Inspect the gasket to ensure it is undamaged.
- Inspect the glass for cracks, chips or scratches.
- Do NOT strike, slam or scratch glass.
- Do NOT operate appliance with glass door removed, cracked, broken or scratched.
- Replace glass door assembly as a complete assembly.

J. Install Door Fronts

The doors should be lifted off the frame at the hinges to make installation easier.

- Make sure the templates have been removed, retain the screws.
- Fit the frame inside the unit opening and use the screws from the facing template to attach the door frame to the unit.
- Install the doors by hanging on the hinges.
- Install the door handles if necessary.

13 Operating Instructions

A. Before operating this appliance, have a qualified technician:

- Verify all shipping materials have been removed from inside and/or underneath the firebox.
- Review proper placement of logs, rockwool and lava rock.
- Check the wiring.
- Check the air shutter adjustment.
- Ensure that there are no gas leaks.
- Ensure that the glass is sealed and in the proper position.
- Ensure that the flow of combustion and ventilation air is not obstructed (front grilles and vent caps).

⚠ WARNING

Fire Risk
Asphyxiation Risk

Glass door **MUST** be in place when appliance is operating. Do NOT operate appliance with glass door removed.

- Open viewing glass for servicing only.
- Glass door MUST be in place and sealed before operating appliance.
- Only use glass door fronts certified for use with the appliance.
- Glass replacement should be done by qualified technician.

⚠ WARNING

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this appliance. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

⚠ WARNING

Do NOT use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

⚠ WARNING

Fire Risk
Burn Risk
HOT! DO NOT TOUCH.
SEVERE BURNS MAY RESULT.
CLOTHING IGNITION MAY RESULT

Glass and other surfaces are hot during operation and cool down.

- Keep children away.
- CAREFULLY SUPERVISE children in same room as appliance.
- Alert children and adults to hazards of high temperatures.
- Do NOT operate with protective barriers open or removed.
- Keep clothing, furniture, draperies and other combustibles away.

This appliance has been supplied with an integral barrier to prevent direct contact with the fixed glass panel. Do NOT operate the appliance with the protective barrier removed.

Contact your dealer or Hearth & Home Technologies if the barrier is not present or help is needed to properly install one.

B. Dashboard Control

Figure 13.1 Dashboard Control

Valve Control

This knob is used to control the gas to the appliance and for starting the pilot. There are three positions, ON, OFF, PILOT. The indicator on the valve indicates the position of the knob.

Pilot Ignitor

This unit is equipped with an electronic ignitor for the pilot. When the valve control knob is turned to the PILOT position and fully depressed, the ignitor will begin sparking and light the pilot. After the pilot is lit, release the knob slightly to stop the ignitor from sparking but continue holding the knob in for 30 seconds to establish the pilot. Release the knob and the pilot should stay lit.

Rear Burner Switch

The rear burner can be shut off completely with the switch, allowing the front burner to operate in either high or low mode for limited heat output.

Ignitor Battery Box

By pulling the drawer forward, the ignitor battery box can be accessed to replace the AA battery as necessary. See Figure 13.2.

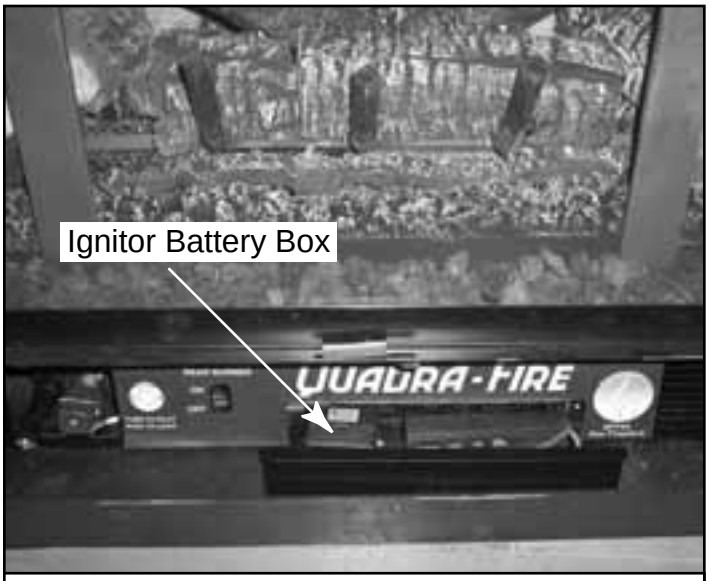


Figure 13.2 Accessing the Ignitor Battery Box.

Remote Receiver

This is also where the Remote Receiver is located. This unit has a remote control system that can be operated thermostatically or manually from the transmitter. The system operates on radio frequencies (RF) within a 20 foot range. The receiver is powered by 110-120VAC and plugs into the junction box.

C. Remote Operation

This remote control kit has a hand held transmitter that can be used as a remote on/off or as a thermostat. The transmitter display shows the current room temperature, target temperature, timer setting, on/off status, low battery indicator, current time, burner/valve operation and fan operation. Electrical ratings for the receiver are: 110 VAC, 60 Hz, 6 W.

FCC REQUIREMENTS

Warning! CHANGES OR MODIFICATIONS TO THIS UNIT NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses , and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Contact the dealer or an experienced radio TV technician for help.

Canadian Equipment Requirements

This digital apparatus does not exceed the (Class A/Class B) limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications. *Le present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques (de la class A/ de la class B) prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada.*

This device complies with RSS-210 of Industry and Science Canada. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

REMOTE RECEIVER

The remote receiver has a 3-position slide switch:

OFF/REMOTE/ON (see Figure 13.2).

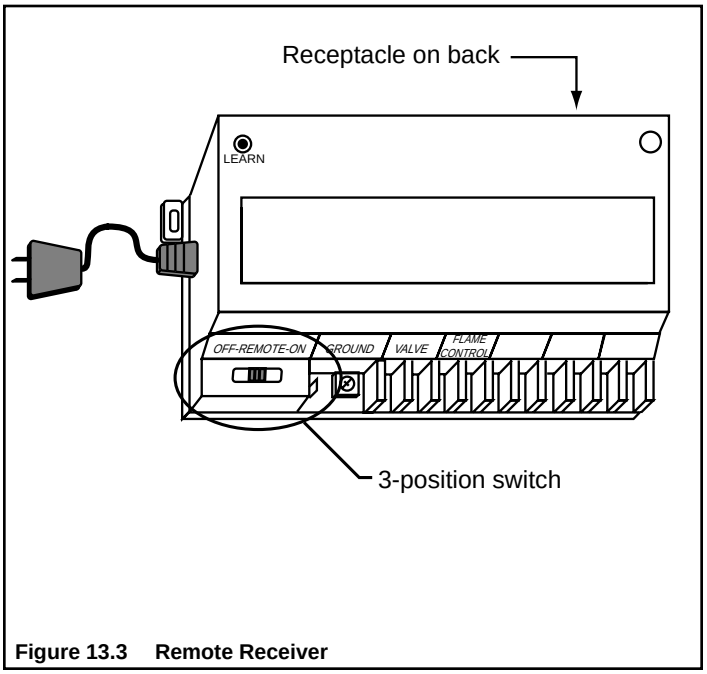


Figure 13.3 Remote Receiver

NOTE: The remote receiver will only respond to the transmitter when the 3-position slide button on the remote receiver is in the Remote position. If the system does not respond to the transmitter on initial use, see section Matching Security Codes.

- With the slide switch in the ON position, the system is on.
- With the slide switch in the REMOTE position, the system only operates if the remote receiver receives commands from the transmitter.
- With the slide switch in the OFF position, the system is off.

NOTE: The slide switch should be placed in the OFF position if you will be away from your home for an extended period of time. Placing the switch in the OFF position also functions as a safety “lock out” by turning the system off and rendering the remote receiver inoperative.

TRANSMITTER

Important: Before operating remote control, transmitter and receiver must have matching security codes. See section ‘Matching Security Codes’.

Important: Review ‘Thermo-Updating/Communication-Safety Features’ under ‘Transmitter Safety Features’ section. Communication Safety features shut down the fireplace system when a potentially unsafe condition exists.

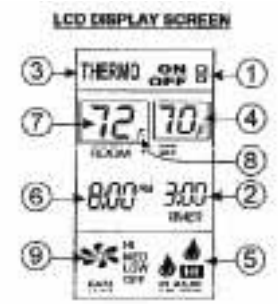
Important: Review ‘Auto Shutdown’ section. This safety feature shuts down the fireplace after 9 hours of continuous operation, in ON mode only. Important: New or fully charged batteries are essential for proper operation of the multi-function transmitter. The transmitter operates on 2 AAA-size 1.5V batteries. Use Alkaline batteries for longer battery life and maximum operational performance.

Insert 2 AAA-size 1.5V batteries into the battery compartment on the back of the transmitter. When the batteries are correctly inserted, the screen will display numbers (see Figure 13.4 for LCD Display Screen).

NOTE: If the transmitter is activated from a very cold condition it may be necessary to allow the transmitter to stabilize to room temperature (could take up to 15 minutes) before accurate room temperatures are displayed on the screen.

NOTE: LCD screen is equipped with a “backlite” for easier viewing of LCD screen. Backlite illuminates when a function button is depressed. After 5 seconds elapses, LCD screen will return to its normal state.

1. **LOW** - Battery power low. Replace batteries within two weeks.
2. **TIMER** - Indicates time remaining before system shuts off, when timer-programmed, 9 - hour maximum setting.
3. **MODE** - Indicates operation MODE of system. ON indicates the system is on, either manually or thermostatically. THERMO indicates the system will automatically cycle ON/OFF, depending on programmed SET temperature. OFF indicates the entire system is turned off.
4. **SET** - Indicates desired SET room temperature for THERMO operation.
5. **FLAME** - Single or double Flame/Hi icon indicates burner/valve operational.
6. **CLOCK** - Indicates the current time in AM/PM.
7. **ROOM** - Indicates CURRENT room temperature.
8. **°F** - Indicates degrees Fahrenheit (°C indicates degrees Celsius).
9. **FAN** - Indicates fan is on or programmed to come on. Three speed settings are available.



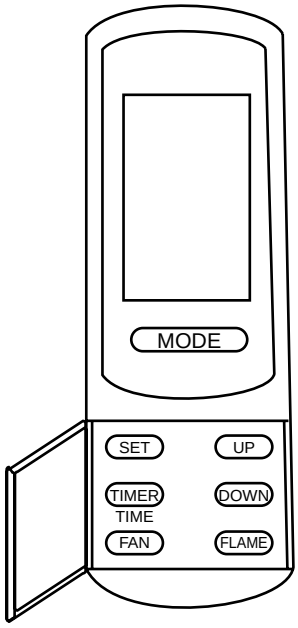


Figure 13.4 Transmitter LCD Display Screen

MATCHING SECURITY CODES

It may be necessary to program the remote receiver to the security code of the transmitter upon initial use, if batteries are replaced, or if a replacement transmitter is purchased from your dealer. To program the remote receiver:

- Set the slide button on the receiver to the REMOTE position.
- Push the LEARN button (one beep will be heard) on the top of the remote receiver.
- Then press the MODE button on the transmitter. Several beeps indicate the transmitter's code has been programmed into the receiver. When an existing receiver is matched to a new transmitter, the new security code will overwrite the old one.

NOTE: When the LEARN button is depressed, "beeping" sounds should be heard. If no "beeping" is heard check to see that the receiver has 110-120VAC power to it.

If you are unsuccessful in matching the security code on the first attempt, wait 1-2 minutes before trying again.

OPERATING INSTRUCTIONS

To operate the system, press the MODE button (Figure 13.4) on the transmitter to select the operational MODE desired.

- ON indicates the system is on, either manually, timed or thermostatically.
- THERMO indicates the system will automatically cycle ON/OFF, depending on programmed set temperature.
- OFF indicates the entire system is turned off.

Transmitter Settings

Flip open the plastic cover on the front of the transmitter to expose the "SET" buttons.

NOTE: Flashing numbers on the display indicate the system is waiting for input, such as using the UP and DOWN buttons to program a new setting. If no change is made to flashing digits within 15 seconds, the system will complete the procedure last programmed and reset the display to its normal state.

Setting the Clock

- Press and hold the TIMER/TIME button on the transmitter for more than two seconds. The hour digit(s) will begin flashing (see Figure 13.4, Location #6).
- Press the UP or DOWN button until the desired hour is displayed in AM or PM.
- After setting the desired hour, press and release the TIMER/TIME button again to set the minutes; the minute digits will begin flashing.
- Press the UP or DOWN button until the desired minutes are displayed.
- Press and hold the TIMER/TIME button again for more than two seconds. The time digits will cease flashing, indicating the clock has been successfully set. You may also press the SET button on the transmitter to stop the time digits from flashing and set the time.

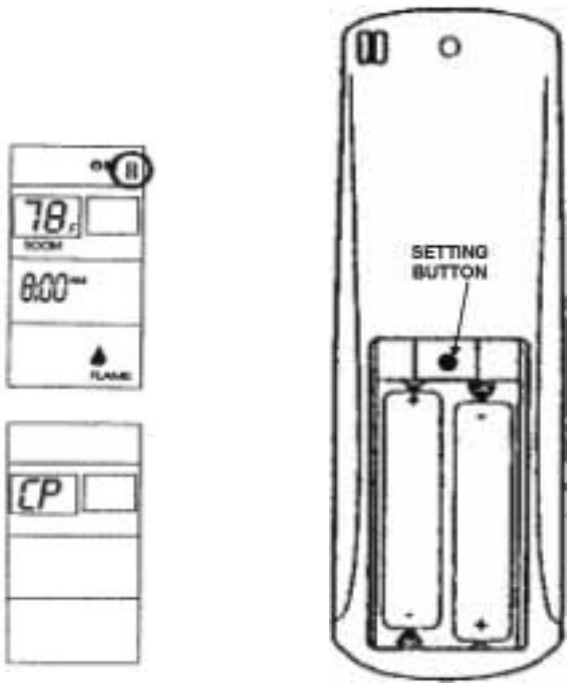


Figure 13.5 Setting Button/Childproof Lockout

Setting °F/°C Scale

The factory setting for temperature is degrees Fahrenheit °F). To change this setting to degrees Centigrade (°C):

- Remove the battery cover on the back of the transmitter and locate the “setting button” at the top center of battery compartment (see Figure 13.5).
- Push setting button and °F will begin flashing on the LCD screen (see Figure 13.4, Location #8).
- Push the DOWN button on the transmitter to change °F to °C.
- Push “setting button” on transmitter and Centigrade (°C) degree readings will display on LCD screen.
- Repeat this process to change back to Fahrenheit (°F) reading, this time pushing the UP button.

NOTE: LCD screen will return to normal state if setting button is not pushed within 15 seconds.

Setting Desired Room Temperature - Thermo Operations

This remote control system can be thermostatically controlled when the transmitter is in the THERMO mode. (THERMO must be displayed on the screen). The transmitter will “sense” the room temperature every two minutes automatically turning the fireplace ON or OFF thermostatically.

To set the desired room temperature:

- Press the MODE button to place the transmitter into THERMO mode. THERMO ON or OFF will display.
- Press the UP or DOWN button to select the desired room temperature. The highest SET temperature is 99° F (32° C). The lowest SET temperature is 45° F (6° C).

NOTE: To prevent repeated thermo-cycling of the gas appliance, the sensing unit in the transmitter will only activate the remote receiver when the temperature change exceeds 2° F (1° C) above or below the SET (desired) temperature.

When the transmitter is in the THERMO mode, it should be kept away from direct sources of heat such as fireplaces, incandescent lighting and direct sunlight. Leaving the transmitter in direct sunlight, for example, will cause it to read the room temperature higher than it actually is.

Setting the Countdown Timer

This remote control system can operate with a built-in countdown timer when the transmitter is in the ON or THERMO modes (THERMO or ON must be displayed on the LCD screen).

- Press and release the TIMER/TIME button on the transmitter. The word TIMER and 0:15 flash on the screen (see Figure 13.4, Location #2).
- Press the UP and DOWN button to begin advancing through each of the countdown time options. Available countdown times are 15 min, 30 min, 45 min, 1 hour, 1 hr 30 min, and each additional half hour up to nine hours.
- To set the TIMER, press the SET button on the transmitter. If the system is ON, it will remain on until the “time” has expired. If the system is in the THERMO mode, it will cycle on and off as the room temperature requires until the “time” has expired.

NOTE: When the timer is used in the THERMO mode, the THERMO operation will discontinue when the “time” has expired.

Operating the Fan - Operates in ON or THERMO mode

This remote control system has the capability of operating a 110 VAC fan or blower system that may be included with your gas fireplace. The fan will only operate when the transmitter is in the ON or THERMO mode. (THERMO or ON must be displayed on LCD screen).

- To turn fan ON, press and release the FAN button on the transmitter (see Figure 13.4, Location #9). The fan will operate at HI speed, and fan blade icon will appear on LCD screen.
- To change fan speed to MED, press and release FAN button again. To change fan speed to LO, press and release FAN button again.
- To turn fan OFF, press and release FAN button again. Fan blade icon will disappear from LCD screen.

Adjusting the Flame Height -

Operates in ON or THERMO mode

This remote control system allows the user to control the height of the FLAME when the gas valve is factory equipped with a FLAME CONTROLLER.

- Press and release FLAME button to change flame height to HI (see Figure 13.4, Location #5), (a second flame icon appears).
- Press again to return flame to normal state.

Low/Battery Indicator

An “X” outlined by a battery on the right side of the LCD screen will appear when battery power has dropped significantly. At this time, approximately two weeks of battery power remains.

Child Proof Lockout (CP)

The transmitter contains a “Child Proof” lockout feature that prevents unauthorized use of the remote control. To access the “Child Proof” activation button, remove cover on BACK of transmitter. To activate LOCKOUT:

- Press and hold in the “setting button” for 5 seconds (see Figure 13.5). The letters CP will display on the LCD screen). This prevents the activation of fireplace. When any function button is pressed ON/OFF etc. the letter CP will display on the LCD screen.

To deactivate LOCKOUT:

- Press and hold in the “setting button” for 5 seconds. The LCD will display CP until 5 seconds have elapsed, and then the LCD screen will return to its normal state.

TRANSMITTER SAFETY FEATURES

It is recommended that the TRANSMITTERS always be located within a 20 foot operating range of the fireplace, preferably in the same room in which the fireplace system is located. The TRANSMITTER features several safety features that alert the user when the TRANSMITTER is placed outside the 20 foot normal operating range.

Thermo-Updating and Communication-Safety Features

This remote control has a COMMUNICATION-SAFETY function built into its software. It provides an extra margin of safety when the TRANSMITTER is out of the normal 20 foot operating range of the receiver. It is also activated when the batteries become weak or are removed from the transmitter.

In the THERMO-UPDATING feature (only in the THERMO or TIMER modes) the transmitter normally reads the ROOM temperature every 2 minutes. In addition to checking the temperature, the transmitter sends a signal to the receiver indicating that the transmitter and its batteries are still active.

In the COMMUNICATION-SAFETY feature, at all times and in all OPERATING MODES the transmitter sends a signal every fifteen (15) minutes to the receiver, indicating that the transmitter is within the normal operating range of 20 feet.

Should the receiver NOT receive a transmitter signal every 15 minutes (COMMUNICATION-SAFETY feature), the RECEIVER will begin a 2 HOUR (120 minute) countdown timing function. If during this 2 hour period, the receiver does not receive a signal from the transmitter, the RECEIVER will shut down the fireplace being controlled by the receiver. The RECEIVER will then emit a series of rapid “beeps”. Then, after 10 rapid “beeps”, the RECEIVER will continue to emit a single “beep” every 4 seconds until a transmitter signal is again received. The intermittent 4 second beeping will go on indefinitely until reset.

To “reset” the RECEIVER and operate the fireplace system:

- Press the MODE button on the transmitter. The word ON must display on the LCD screen. The COMMUNICATION - SAFETY operation is overridden and the system will return to normal operation depending on the MODE selected at the transmitter. We recommend the user check the batteries in the TRANSMITTER to make sure the voltage is no less than 2.7 volts.

Auto Shutdown

This remote control has an Auto Shutdown feature incorporated into its system. When the transmitter MODE is in the ON position the fireplace will continuously operate for 9 hours. After 9 hours, the fireplace will shut down. To relight the fireplace:

- Press the MODE button. The fireplace will operate continuously for up to 9 hours before Auto Shutdown repeats cycle. The Auto Shutdown signal comes from the transmitter. The transmitter must be positioned within a 20 foot operating range for the Auto Shutdown feature to operate.

SYSTEM CHECK

Light the appliance following the lighting instructions that came with the fireplace. Confirm that the pilot flame is on. It must be in operation for the main gas valve to operate.

- Slide the 3-position button on the remote receiver to the ON position. The main gas flame (i.e., the fire) should ignite.
- Slide the button to OFF. The flame should extinguish (the pilot flame will remain on).
- Slide the button to REMOTE (the center position), then press the MODE button on the transmitter to change the system to ON. The main gas flame should ignite.
- Press the MODE button on the transmitter to change the system to OFF. The flame should extinguish (the pilot flame will remain on).
- Press the MODE button on the transmitter to change the system to THERMO.

- Advance the SET temperature on the transmitter to a temperature of at least 2° F (1° C) above the ROOM temperature displayed on the LCD screen and the system flame will ignite.
- Set the SET temperature to at least 2° F (1° C) below the room temperature and the system flame will extinguish. Thereafter, it should continue to cycle on and off thermostatically approximately every two minutes as the ROOM temperature changes, but only when the temperature differential between ROOM and SET temperatures differs at least 2° F (1° C). The 2° F differential is the factory setting.

Timer Operation

The countdown timer will operate in either the manual ON or THERMO mode. Once the fireplace system is in an operating mode, set the countdown timer to turn off in 15 minutes. The timer function will allow operation to continue until the "countdown time" on the LCD screen expires. After 15 min. elapses, the system should turn off.

GENERAL INFORMATION

Transmitter Wall Bracket

The transmitter can be hung on a wall using the bracket provided. Locate the bracket on an inside wall sufficiently far away from direct sources of heat such as a fireplace, incandescent lighting, or sunlight so it detects ambient room temperatures, not a single heat source. If the bracket is installed on a solid wood wall, drill 1/8" pilot holes and install with the screws provided. If it is installed on a plaster/wallboard wall, first drill two 1/4" holes into the wall, then use a hammer to tap in the two plastic wall anchors flush with the wall, then install the screws provided.

Battery Life

Life expectancy of the batteries in the transmitter should be at least 12 months. Check batteries annually. When the transmitter no longer operates the remote receiver from a distance it did previously (i.e., the transmitter's range has decreased) the batteries should be checked.

Specifications

Batteries: Transmitter - 3V 2 ea.; AAA 1.5V, Alkaline
Remote - 110-120 VAC; 60Hz
Operating Frequency: 303.8 MHZ
FCC ID No.'s: Transmitter - K9L300ITX
Receiver - K9L3003RX
Canadian ISC ID No.'s: Transmitter - 2439 102 760
Receiver - 2439 102 760A

D. Lighting the Appliance

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life

A. This appliance has a pilot that must be lit manually. When lighting the pilot, follow these instructions exactly.

B. **BEFORE LIGHTING,** smell around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

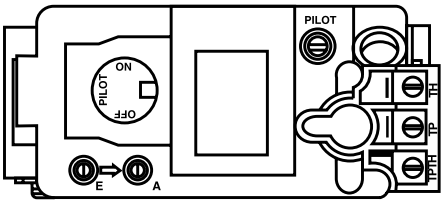
WHAT TO DO IF YOU SMELL GAS:

* Do not try to light any appliance.
* Do not touch any electric switch, do not use any phone in your building.
* Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
* If you cannot reach your gas supplier, call the fire department.

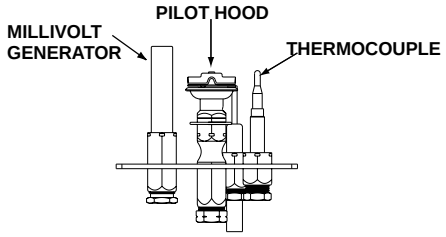
C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.

D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

LIGHTING INSTRUCTIONS



1. **STOP! Read the safety information above on this label.**
2. Set the thermostat to the lowest setting (if applicable) and turn off the switch at the control panel.
3. Disconnect the power from the appliance.
4. Open the door of the appliance. May need to remove face/front first.
5. Push in gas control knob slightly and turn clockwise ↷ to the "OFF" position. Do not force.
6. Wait five (5) minutes to clear out any gas. Smell for gas, including near the floor. If you smell gas, STOP! Follow "B" of the safety information above. If you don't smell gas go to the next step.
7. Push gas control knob in and turn counterclockwise ↶ to the pilot position. NOTE: Knob cannot be turned unless knob is pushed in slightly. Do not force.
8. PIEZO IGNITER: Press down on the gas control knob in pilot position and simultaneously press the piezo igniter. (This may take many repetitions for lighting.)
   ELECTRONIC IGNITER: If the unit is equipped with an electronic igniter it should begin sparking right away.
9. The pilot should be visible through the door opening.
10. After the pilot is lit, continue holding control knob down for approximately 30 seconds. Release the knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 7 through 9.
    * If the knob does not pop up when released, stop and immediately call your service technician or gas supplier.
    * If the pilot will not stay lit after several tries, turn the gas control knob clockwise ↷ to "OFF" and call your service technician or gas supplier.
11. Reinstall door and face. Wait five minutes to allow pilot flame to stabilize and establish proper draft.
12. Push down and turn gas control knob counterclockwise ↶ to "ON".
13. Use remote transmitter to operate the unit. If thermostat is to be used, leave switch in "OFF" position and set the thermostat to desired setting.
14. Reconnect electrical power to appliance.



TO TURN OFF GAS TO APPLIANCE

1. Turn unit off with remote.
2. Turn off all electric power to the appliance if service is to be performed.
3. Push in gas control knob slightly and turn clockwise ↷ to "OFF" position.

E. After the Appliance is Lit

Initial Break-in Procedure

When you light the appliance, operate on low for 3-4 hours on the intial startup. This will help cure the products used in the logs, refractory and paint. You may notice that it produces heat which does have an associated odor or smell. If you feel this odor is excessive it may require the initial three to four hour continuous burn on low followed by a second burn up to 12 hours to fully drive off any odor from paint and lubricants used in the manufacturing process. Condensation of the glass is normal.

Note: This appliance should be run three to four hours on low on the initial start-up. Turn it off and let it cool completely. Remove and clean the glass. Reinstall the glass and run the appliance for an additional 12 hours. This will help cure the products used in the paint and logs.

During this break-in period it is recommended that some windows in the house be opened for air circulation. This will help avoid setting off smoke detectors, and help eliminate any odors associated with the appliance's initial burning.

⚠ WARNING

Fire Risk

High Temperatures

Keep combustible household items away from appliance.

Do NOT obstruct combustion and ventilation air.

- Do NOT place combustible items on top of or in front of appliance.
- Keep furniture, draperies away from appliance.

CAUTION

- Prevent accidental appliance operation when not attended.
- Unplug or remove batteries from remote control if absent or if appliance will not be used for an extended period of time.
- Property damage possible from elevated temperatures.

CAUTION

Smoke and odors are released during initial operation.

- Open windows for air circulation.
- Leave room during initial operation.
- Smoke may set off smoke detectors.

Smoke and odors may be irritating to sensitive individuals.

⚠ WARNING

Fire Risk

Keep combustible materials, gasoline and other flammable vapors and liquids clear of appliance.

- Do NOT store flammable materials in the vicinity of the appliance.
- Do NOT use gasoline, lantern fuel, kerosene, charcoal lighter fluid or similar liquids in this appliance.

Combustible materials may ignite.

F. Frequently Asked Questions

Issue	Solutions
1. Condensation on the glass.	1. This is a result of gas combustion and temperature variations. As the appliance warms, this condensation should disappear.
2. Blue flames.	2. This is a result of normal operation and the flames will begin to yellow as the appliance is allowed to burn for 20-40 minutes.
3. Odor from appliance.	3. When first operated, this appliance may release an odor for the first several hours. This is caused by the curing of the paint and the burning off any oils remaining from manufacturing. Odor may also be released from finishing materials and adhesives used around the appliance.
4. Film on the glass.	4. This is a normal result of the curing process of the paint and logs. Glass should be cleaned within 3-4 hours of initial burning to remove deposits left by oils from the manufacturing process. A non-abrasive cleaner such as a gas fireplace glass cleaner may be necessary. See your dealer.
5. Metallic noise.	5. Noise is caused by metal expanding and contracting as it heats up and cools down, similar to the sound produced by a furnace or heating duct. This noise does not affect the operation or longevity of the appliance.
6. Is it normal to see the pilot flame burn continually?	6. In a safety pilot system it is normal to see the pilot flame.

14 Troubleshooting

With proper installation, operation and maintenance your gas appliance will provide years of trouble-free service. If you do experience a problem, this troubleshooting guide will assist a qualified service person in the diagnosis of a problem and the corrective action to be taken. This troubleshooting guide can only be used by a qualified service technician.

Symptom		Possible Causes		Corrective Actions
1	After repeated triggering of the electronic spark igniter the pilot will not light.	a.	Defective igniter.	Check the spark at the electrode and pilot. If no spark and electrode wire is properly connected, replace the igniter AA battery.
		b.	Defective pilot or misaligned electrode (spark at electrode).	Use a match to light the pilot. If the pilot lights, turn off the pilot and trigger the button again. If the pilot lights, an improper gas/air mixture caused the bad lighting and a longer purge period is recommended. If the pilot will not light, ensure the gap at the electrode and pilot is 1/8 in. to have a strong spark. If the gap is OK, replace the pilot.
		c.	No gas or low gas pressure.	Check the remote shut-off valves from the fireplace. Usually, there is a valve near the gas main. There can be more than one valve between the fireplace and the main.
		d.	No LP in the tank.	Check the LP (propane) tank. You may be out of fuel.
2.	The pilot will not stay lit after carefully following the lighting instructions.	a.	Defective thermocouple.	Check that the pilot flame impinges on the thermocouple. Clean and/or adjust the pilot for maximum flame impingement. Ensure that the thermocouple connection at the gas valve is fully inserted and tight (hand tighten plus 1/4 turn). Disconnect the thermocouple from the valve, place one millivolt meter lead wire on the tip of the thermocouple and the other meter lead wire on the thermocouple copper lead. Start the pilot and hold the valve knob in. If the millivolt reading is less than 15mV, replace the thermocouple.
		b.	Defective valve.	If the thermocouple is producing more than 15 millivolt, replace faulty valve.

3.	The pilot is burning, there is no burner flame, the valve knob is in the ON position, and the MLT OFF/REMOTE/ ON switch is in the REMOTE position.	a.	Power failure.	Verify that 120 VAC is present at the unit. If power if OFF, the MLT switch must be placed in the ON position unless an optional wall thermostat or switch is installed. The optional thermostat or switch will control the burner operation. The burner defaults to high when power if OFF.
		b.	Remote receiver or wires defective.	Check the RED wires for proper connections. Place a jumper wire across the TH-TP and TH terminals at the gas valve. If the burner comes on, remove the jumper and place the MLT switch in the ON position. If the burner comes ON, refer to the troubleshooting documents for the MLT remote control.
		c.	Thermopile may not be generating sufficient millivolt signal.	If the pilot flame is not physically close enough to the thermopile, adjust the pilot flame. Be sure the wire connections from the thermopile at the gas valve terminals are tight and that the thermopile is fully inserted into the pilot bracket. Check the thermopile with a millivolt meter. With the pilot lit, disconnect the thermopile leads from the valve. Take a reading at the thermopile leads. The reading should be 325 millivolt minimum. Replace the thermopile if the reading is below the minimum. Reconnect the thermopile leads. Be sure the wire connections from the thermopile at the gas valve terminals are tight.
		d.	Defective valve.	Turn on the valve knob to the ON position. Place the MLT switch in the ON position. Check the millivolt meter reading at the thermopile terminals. The millivolt meter should read greater than 125mV. If the reading is acceptable, and if the burner does not come on, replace the gas valve.
		e.	Plugged burner orifice.	Check the burner orifice for stoppage. Remove stoppage.
		f.	Optional wall thermostat wires are defective.	Disconnect the red MLT wires. Jumper the leads at the wall thermostat or wall switch. Check the thermostat, switch and wiring. Replace where defective.
4.	Rear burner switch does not turn OFF the back burner.	a.	Power failure.	Verify that 120 VAC is present at the unit. If power if OFF, the MLT switch must be placed in the ON position unless an optional wall thermostat or switch is installed. The optional thermostat or switch will control the burner operation. The burner defaults to high when power is OFF.
		b.	Rear burner switch is defective.	Ensure that the interface is securely attached to the switch. Jumper the terminals of the switch. If the back burner goes OFF, replace the switch.
		c.	9vdc power supply defective.	Disconnect the power supply from the interface. Use a dc volt meter on the plug the tip is positive. If the voltage is less than 9vdc, replace the power supply.
		d.	Defective interface module.	Disconnect the front solenoid red and black wires. Momentarily touch to a 9 volt battery. Reverse the battery and momentarily touch to the battery again. If you hear the solenoid snap when it toggles, replace the interface module. Reverse the battery again. If the solenoid does not snap, replace the solenoid block.

5.	Frequent pilot outage problem.	a.	Pilot flame may be too high or low, or blowing (high), causing pilot safety to drop out.	Clean and adjust the pilot flame for maximum flame impingement on thermocouple. Follow lighting instructions carefully.
6.	The pilot and main burner extinguish while in operation.	a.	No LP in tank.	Check the LP (propane) tank. Refill the fuel tank.
		b.	Inner vent pipe leaking exhaust gases back into the system.	Check for gas leaks.
		c.	Horizontal vent improperly pitched.	The horizontal vent cap should slope down only enough to prevent any water from entering the unit. The maximum downwards slope is 1/4 in.
		d.	Glass too loose and air tight packet leaks in corners after usage.	Tighten the corner.
		e.	Bad thermopile or thermocouple.	Replace if necessary.
		f.	Improper vent cap installation.	Check for proper installation and freedom from debris or blockage.
7.	Glass soots.	a.	Flame impingement.	Adjust the log set so that the flame does not excessively impinge on it.
		b.	Improper venturi setting.	Adjust the air shutter at the base of the burner.
		c.	Debris around venturi.	Inspect the opening at the base of the burner. NO MATERIAL SHOULD BE PLACED IN THIS OPENING.
8.	Flame burns blue and lifts off burner.	a.	Insufficient oxygen being supplied.	Ensure that the vent cap is installed properly and free of debris, and that the vent system joints are tight and have no leaks. Ensure that no debris has been placed at the base of, or in the area of the air holes in the center of the base pan beneath the burner. Ensure that the glass is tightened properly on the unit, particularly on top corners.

15 Maintaining and Servicing the Appliance

Although the frequency of appliance servicing and maintenance will depend on use and the type of installation, a qualified service technician should perform an appliance check-up at the beginning of each heating season.

⚠ WARNING

Risk of injury or property damage

Before servicing:

- Turn off gas.
- Turn off electricity to appliance.
- Disable remote control, if one is present.
- Ensure appliance is completely cooled.

After Servicing:

- Replace any screen or barrier that was removed.
- Reseal and reinstall any venting removed for servicing.

⚠ WARNING

Annual inspection by qualified technician recommended.

Check:

- Condition of glass, glass assembly and glass seal.
- Obstructions of combustion and ventilation air.

- Obstructions of termination cap.
- Burner ignition and operation.
- Burner air shutter adjustment.
- Gas connections and fittings.

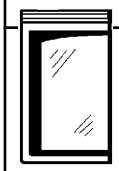
Clean:

- Glass.
- Air passageways, grilles, control compartment.
- Burner, burner ports. **USE CAUTION WHEN CLEANING/HANDLING CERAMIC BURNER.**

Risk of:

- Fire
- Delayed ignition or explosion
- Exposure to combustion fumes
- Odors

CAUTION



Handle glass assembly with care.

Note: Clean glass after initial 3-4 hours operation. **Longer operation without cleaning glass may cause a permanent white film on glass.**

When cleaning glass door:

- Avoid striking, scratching or slamming doors.
- Do NOT use abrasive cleaners.
- Use a hard water deposit glass cleaner on white film.
- Do NOT clean glass when it is hot.
- Turn off appliance after 3-4 hours of operation and ALLOW TO COOL.
- Remove and clean glass assembly.
- Replace glass assembly and operate appliance for an additional 12 hours.

Refer to maintenance instructions.

⚠ WARNING

Fire Risk

Explosion Risk

Inspect external vent cap regularly.

- Ensure no debris blocks cap.
- Combustible materials blocking cap may ignite.
- Restricted air flow affects burner operation.

Maintenance and Service Tasks:

Inspect	Maintenance Tasks
Doors, surrounds and fronts	1. Access condition of screen and replace as necessary. Recommend addition of screen if one is not present.
	2. Inspect for scratches, dents or other damage and repair as necessary.
	3. Verify no obstructions to airflow through the louvers.
	4. Verify proper clearance to combustible household objects is maintained.
Gasket seal, glass assembly and glass	1. Inspect gasket seal and its condition.
	2. Inspect glass panels for scratches and nicks that can lead to breakage when exposed to heat.
	3. Confirm there is no damage to glass or glass frame. Replace as necessary.
	4. Verify that latches engage properly, clip studs are not stripped, and glass attachment components are intact and operating properly. Replace as necessary.
	5. Clean glass using a nonabrasive cleaner such as Brasso®. Replace glass assembly if severely coated with silicate deposits that cannot be removed.
Valve compartment and firebox top	1. Vacuum and wipe out dust, cobwebs, debris or pet hair. Use caution when cleaning these areas. Screw tips that have penetrated the sheet metal are sharp and should be avoided.
	2. Remove any foreign objects.
	3. Verify unobstructed air circulation.
Logs	1. Inspect for broken, damaged, or missing logs. Replace as necessary.
	2. Verify correct log placement and no flame impingement causing sooting. Correct as necessary.
Firebox	1. Inspect for paint condition, warpage, corrosion or perforation. Sand and repaint as necessary.
	2. Replace appliance if firebox has been perforated.
Burner ignition and operation	1. Verify burner is properly secured and aligned with pilot or ignitor.
	2. Clean off burner top, inspect for plugged ports, corrosion or deterioration. Replace burner if necessary.
	3. Replace rockwool with new dime-sized and shaped pieces. Do not block ports or obstruct lighting paths.
	4. Check for smooth lighting and ignition carryover to all ports. Verify there is no ignition delay.
	5. Inspect for lifting or other flame problems.
	6. Verify air shutter is clear of dust and debris.
	7. Inspect orifice for soot, dirt or corrosion.
	8. Verify manifold and inlet pressures. Adjust regulator as required.
	9. Inspect pilot flame strength. Clean or replace orifice as necessary.
	10. Inspect thermocouple/thermopile rod for soot, corrosion and deterioration. Clean with emery cloth or replace as required.
	11. Verify millivolt output. Replace as necessary.
Venting	1. Inspect venting for blockage or obstruction such as birds' nests, leaves, etc.
	2. Confirm that termination cap remains clear and unobstructed by plants, etc.
	3. Verify that termination cap clearance to subsequent construction (building additions, decks, fences or sheds) has been maintained.
	4. Inspect for corrosion or separation.
	5. Verify weather stripping, sealing and flashing remain intact.
	6. Inspect draft shield to verify it is not bent, damaged or missing.
Remote controls	1. Verify operation of remote.
	2. Replace batteries in remote transmitters and battery-powered receivers.
	3. Verify batteries have been removed from battery back-up in IPI systems to prevent premature battery failure or leaking.
Refractory	1. Check firebox refractory for excessive cracks or gaps. If cracks exceed 1/4 in. (6 mm) in width the refractory should be replaced.

16 Reference Materials

A. Appliance Dimension Diagram

Dimensions are actual appliance dimensions. Use for reference only. For framing dimensions and clearances refer to Section 3.

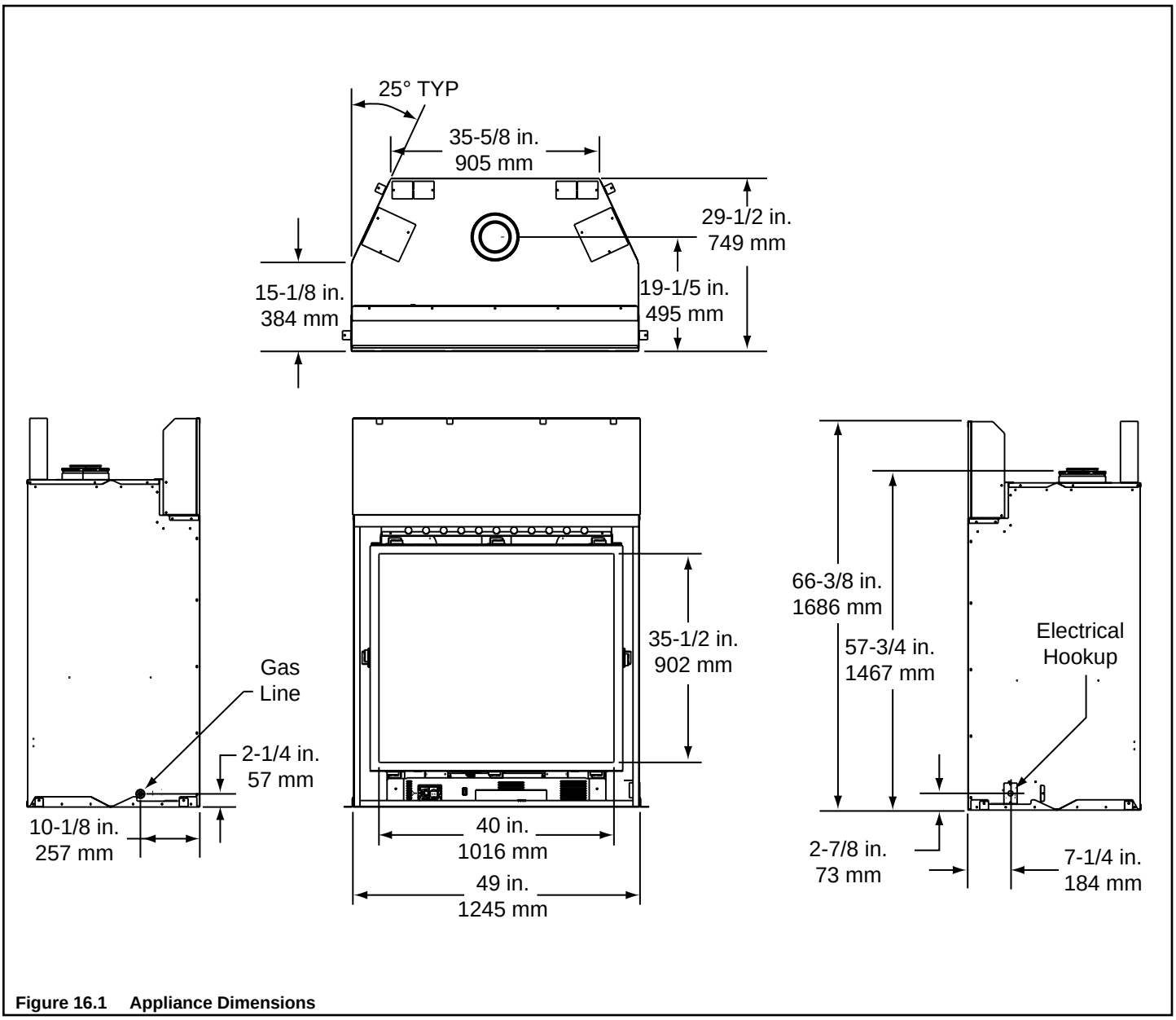
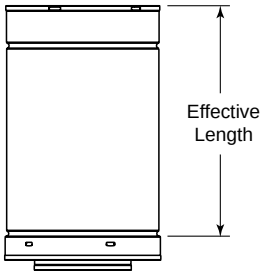


Figure 16.1 Appliance Dimensions

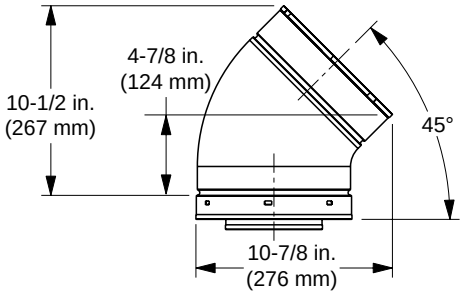
B. Vent Components Diagrams

Components	Description
DVP4	4 in. length Vent Pipe
DVP6	6 in. length Vent Pipe
DVP12	12 in. length Vent Pipe
DVP24	24 in. length Vent Pipe
DVP6A	3 in. - 6 in. Slip Section Vent Pipe (to be used with another piece of pipe)
DVP36	36 in. length Vent Pipe
DVP48	48 in. length Vent Pipe
DVP12A	3 in. - 12 in. Slip Section Vent Pipe (to be used with another piece of pipe)
DVP12MI	12 in. Vent Pipe - non-unitized (can be cut to length)
DVP24MI	24 in. Vent Pipe - non-unitized (can be cut to length)
DVP45	45° Elbow
DVP90ST	90° Elbow
DVP-AS	Attic Insulation Shield
DVP-FS	Ceiling Firestop
DVP-HVS	Vent Support - Horizontal
DVP-WS	Wall shield firestop (used to ensure horizontal clearances)
RF6M	Roof Flashing (vertical termination for 0/12 to 6/12 pitch) - pack of four
RF12M	Steep Pitch Roof Flashing (for 7/12 to 12/12 pitch) - pack of six
BEK	Brick Extension Kit - 10 pcs.
DVP-BEK2	Brick Extension Kit for High Performance Cap
DVP-TRAPFL	Trap Cap Rain Flashing - qty. 4
COOL-ADDM	Cap Shield (for DVP-TRP) - pack of six
DRC-RADIUS	Cap Shield (for DVP-TRAP and DVP-HPC)
DVP-TVHW	Vertical Termination Cap (High Wind). Includes storm collar and fastener pack.
DVP-TV	Vertical Termination Cap - Includes storm collar & fastener pack.
DVP-TB1	Basement/window well termination cap. Includes fastener pack.
DVP-FBHT	Fire Brick Termination Cap
DVP-TRAP	Rear Vent Horizontal Termination Cap
DVP-TRAP2	Horizontal Termination Cap with 4 in. telescoping flue, wall shield firestop with heat shield & fastener pack.
DVP-HPCK1-B	Vent Kit with DVP-HPC1 Termination Cap (painted beige), wall shield firestop with heat shield, 90° elbow & fastener pack.
DVP-HPCK2-B	Vent Kit with DVP-HPC2 Termination Cap (painted beige), wall shield firestop with heat shield, 90° elbow & fastener pack.
DVP-HSM-B	Extended Heat Shield
4033-016	DVP-TRAP to DVP-HPC Side Filler Kit

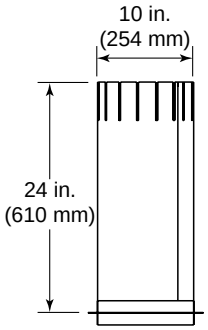


DVP Pipe
(see chart)

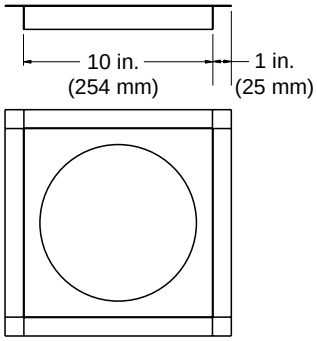
Pipe	Effective Length
DVP4	4 in. (102 mm)
DVP6	6 in. (152 mm)
DVP12	12 in. (305 mm)
DVP24	24 in. (610 mm)
DVP36	36 in. (914 mm)
DVP48	48 in. (1219 mm)
DVP6A	3 to 6 in. (76 to 152 mm)
DVP12A	3 to 12 in. (76 to 305 mm)
DVP12MI	3 to 12 in. (76 to 305 mm)
DVP24MI	3 to 24 in. (76 to 610 mm)



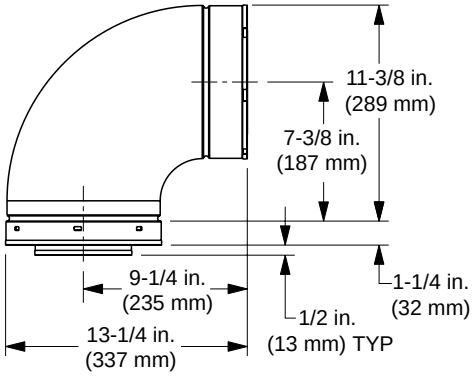
DVP45
45° Elbow



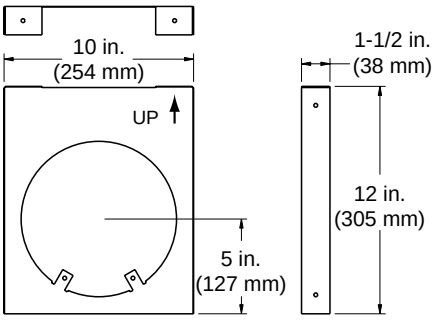
DVP-AS
Attic Shield



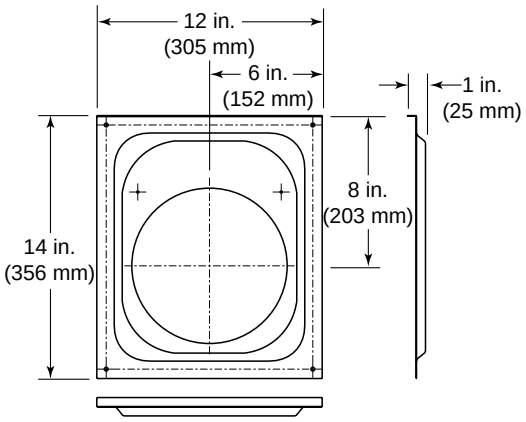
DVP-FS
Ceiling Firestop



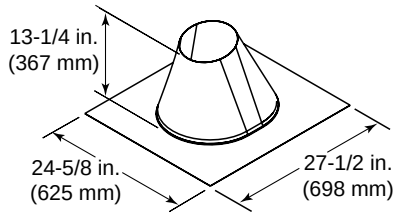
DVP90ST
90° Elbow



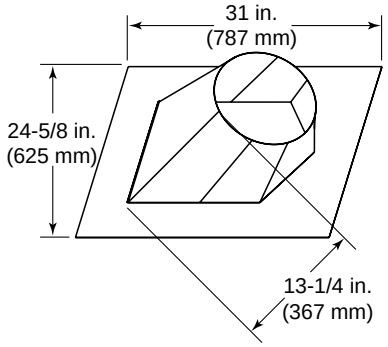
DVP-HVS
Vent Support



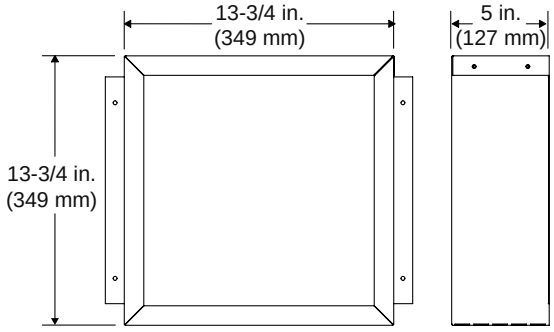
DVP-WS
Wall Shield Firestop



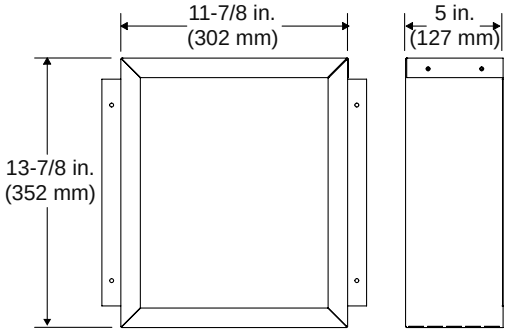
RF6M
Roof Flashing Multi-pak



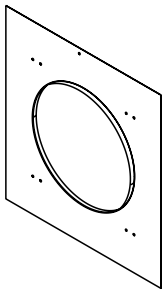
RF12M
Roof Flashing Multi-pak



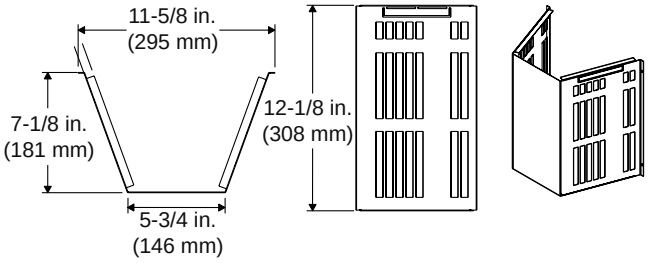
BEK
Trap Cap Brick Extension



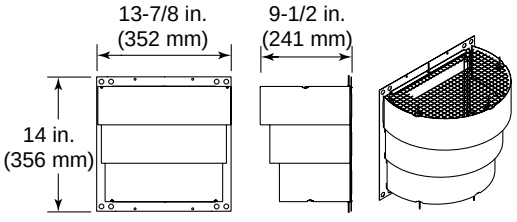
DVP-BEK2
DVP-HPC Cap Brick Extension



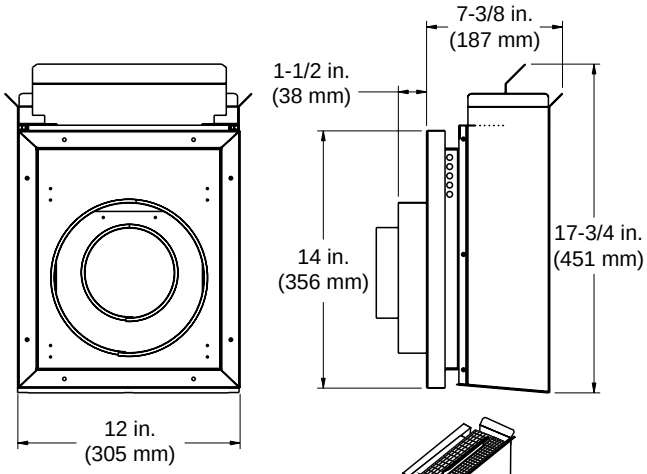
DVP-TRAPFL
Flashing



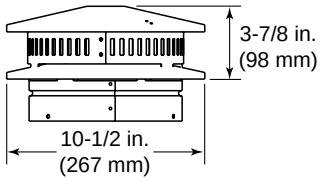
COOL-ADD
Cap Shield



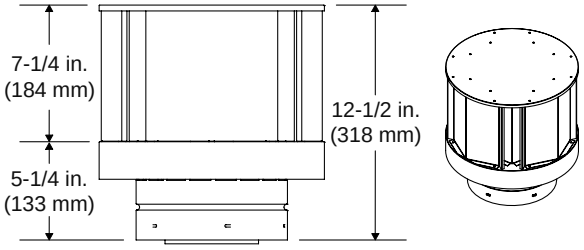
DRC-RADIUS
Cap Shield



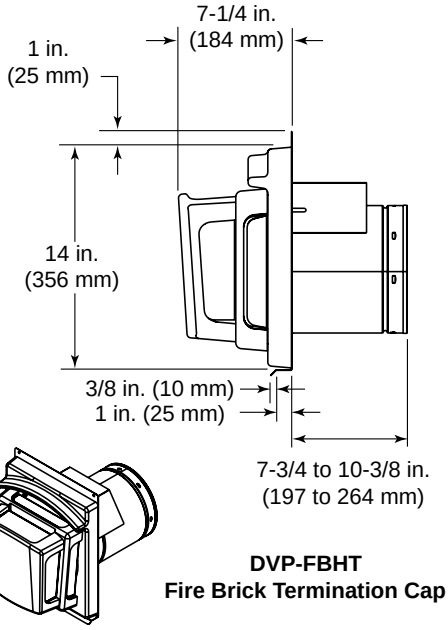
DVP-TB1
Basement Vent Cap



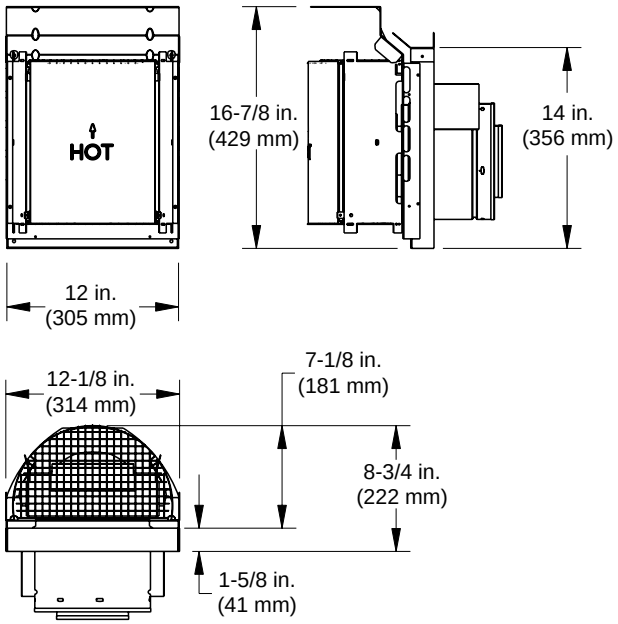
DVP-TV
Vertical Termination Cap



DVP-TVHW
Vertical Termination Cap (High wind)

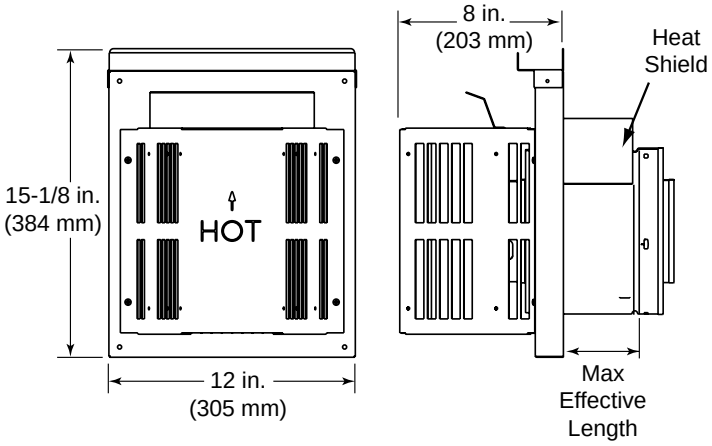


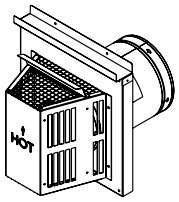
DVP-FBHT
Fire Brick Termination Cap



DVP-HPC
High Performance Cap

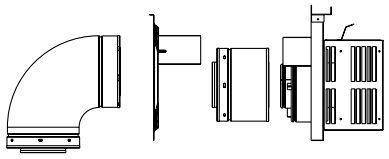
Note: Heat shields MUST overlap by a minimum of 1-1/2 in. (38 mm). **The heat shield is designed to be used on a wall 4 in. to 7-1/4 in. (102 mm to 184 mm) thick.** If wall thickness is less than 4 in. (102 mm) the existing heat shields must be field trimmed. If wall thickness is greater than 7-1/4 in. (184 mm) a DVP-HSM-B will be required.



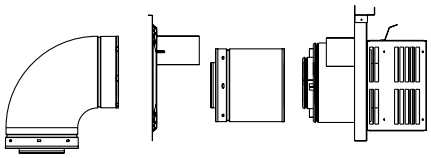


Term Cap	Minimum Effective Length	Maximum Effective Length
TRAP1	4-1/8 in.	5-5/8 in.
	105 mm	143 mm
TRAP2	6-3/4 in.	10-5/8 in.
	171 mm	270 mm

DVP-TRAP
Horizontal Termination Cap



DVP-TRAPK1



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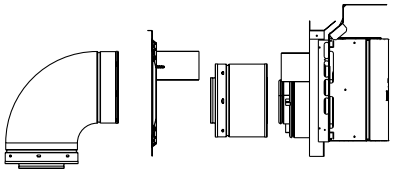

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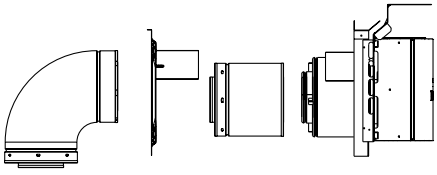

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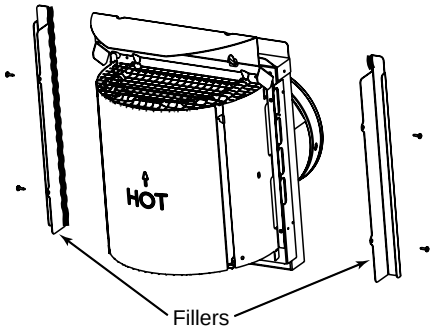


DVP-TRAP to DVP-HPC Side Filler Kit

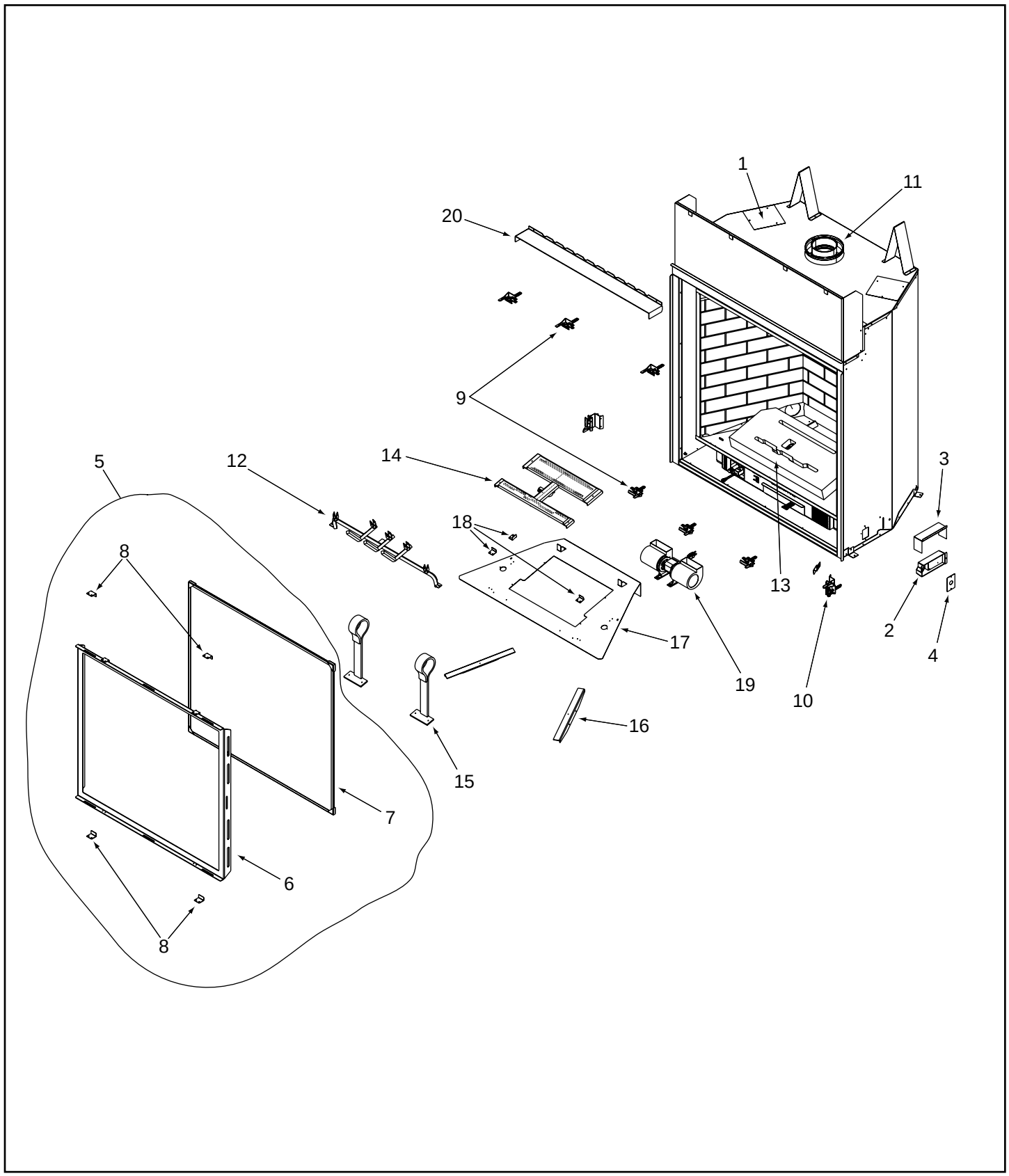
C. Service Parts List

QUADRA-FIRE
NOTHING BURNS LIKE A QUAD

Service Parts QFP44

Exploded Parts Diagram
44 in. Gas Appliance - DV

Beginning Manufacturing Date: 8/1/06
Ending Manufacturing Date: Active



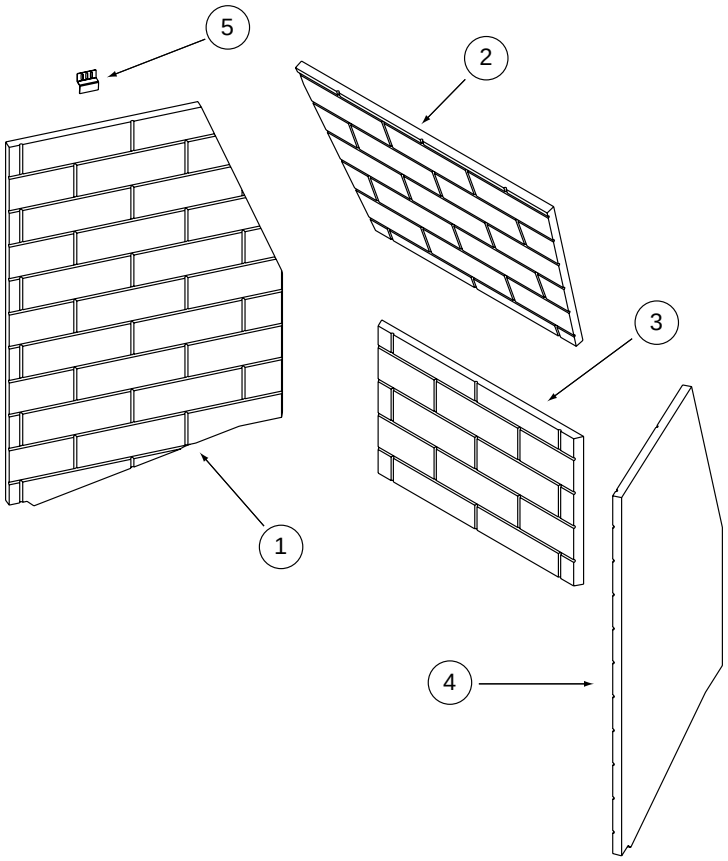
Service Parts List
44 in. Gas Appliance - DV
(parts listed in bold italics are critical parts)

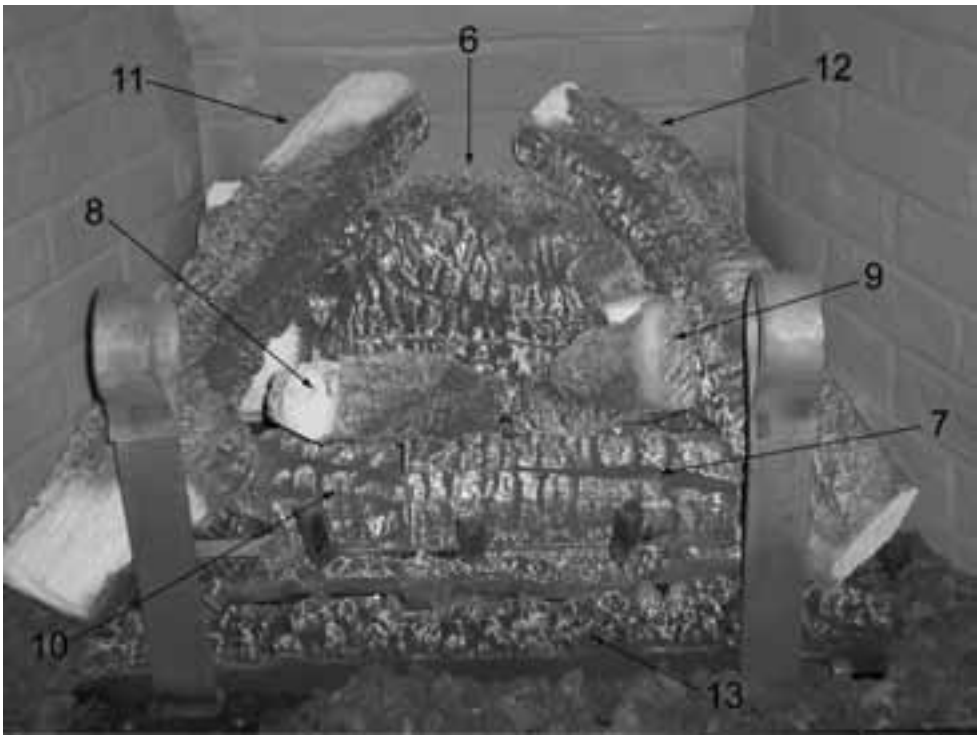
Beginning Manufacturing Date: 8/1/06
Ending Manufacturing Date: Active

#	Description of Part	QFP44-NG	Qty. req.
1	Heat Zone Cover Plate	4051-122	2
2	***Junction Box (plastic)***	***4021-013***	1
3	***Junction Box Radiation Shield***	***4047-128***	1
4	Junction Box Cover Plate	4031-222	1
5	Glass Frame Assembly	4051-005	1
6	Glass Frame	4051-123	1
7	***Glass & Gasket Assembly***	***4051-006***	1
8	Glass Retainer	4051-124	4
9	***Glass Clip Assembly***	***33858***	6
10	***Side Glass Latch Assembly***	***4051-003***	2
11	Intake Collar Assembly	4002-002	1
	Flue Gasket	4000-225	1
12	Grate Assembly	4051-012	1
	Vertical Baffle	4051-185	2
13	***Burner Cover***	***4051-024***	1
14	***Burner Assembly***	***4051-008***	1
15	Andiron	4051-311	2
16	Hearth Pan Support	4051-160	2
17	Hearth Sheet	4051-125	1
18	Retainer	4051-124	3
19	Fan Assembly	4051-007	1
20	***Front Shield***	***4051-114***	1
	Installation Instructions & Owner's Manual	4051-300	1

Exploded Parts Diagram
44 in. Gas Appliance - DV

Beginning Manufacturing Date: 8/1/06
Ending Manufacturing Date: Active





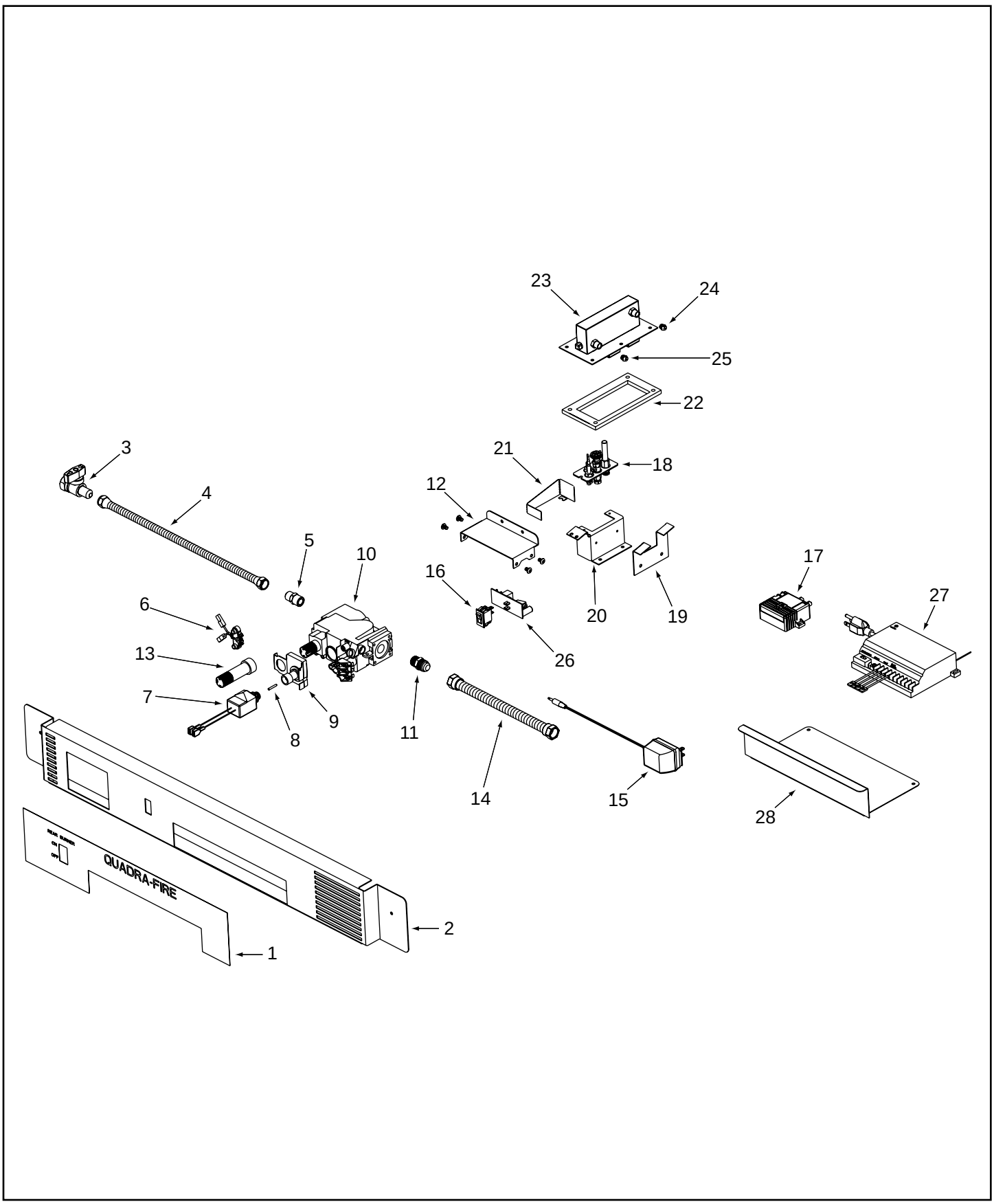
Service Parts List
44 in. Gas Appliance - DV
(parts listed in bold italics are critical parts)

Beginning Manufacturing Date: 8/1/06
Ending Manufacturing Date: Active

#	Description of Part	QFP44-NG	Qty. req.
1	Left Refractory	4051-146	1
2	Upper Back Refractory	4051-149	1
3	Lower Back Refractory	4051-148	1
4	Right Refractory	4051-147	1
5	Refractory Retainer	11847	2
6	***Back Log***	***4051-018***	1
7	***Front Right Log***	***4051-135***	1
8	***Middle Left Log***	***4051-138***	1
9	***Middle Right Log***	***4051-139***	1
10	***Front Left Log***	***4051-142***	1
11	***Top Left Log***	***4051-136***	1
12	***Top Right Log***	***4051-137***	1
13	***Burner Cover***	***4051-024***	1
	Lava Rock Bag Assembly	4040-094	1
	Lava Rock	4021-297	1
	Mineral Wool	14333B	1
	Vermiculite	28746	1

Exploded Parts Diagram
44 in. Gas Appliance - DV

Beginning Manufacturing Date: 8/1/06
Ending Manufacturing Date: Active



Service Parts List
44 in. Gas Appliance - DV
(parts listed in bold italics are critical parts)

Beginning Manufacturing Date: 8/1/06
Ending Manufacturing Date: Active

#	Description of Part	QFP44-NG	Qty. req.
1	Dashboard Label	4051-308	1
2	Dashboard	4051-121	1
3	***ON/OFF Valve***	***15697***	1
4	***16 in. Stainless Steel Flex Gas Line***	***17245B***	1
5	***Brass Connector - Male - Flex***	***17069***	1
6	***Ignition Cable/Switch Assembly***	***230-1900***	1
7	***HI/LO Solenoid***	***4021-379***	1
8	***Conversion Pin - NG***	***4021-367***	1
8	***Conversion Pin - LP***	***4021-368***	1
9	***Solenoid Regulator***	***4021-378***	1
10	***Valve***	***230-0710***	1
11	***1/2 in. to 3/8 in. NPT Flare - Male***	***4021-373***	1
12	Valve Bracket	4051-120	1
13	Extension Knob	230-1250	1
14	***10 in., 1/2 in. dia. Flex Gas Line***	***4021-374***	1
15	***9V Transformer***	***2101-290***	1
16	***ON/OFF Rocker Switch***	***4021-377***	1
17	***Ignition Module***	***230-1880***	1
18	***Pilot Assembly***	***230-1781***	1
19	Pilot Support	4051-179	1
20	Pilot Bracket	4051-161	1
21	Pilot Shield	4051-184	1
22	***Cover Plate Gasket***	***4042-306***	1
23	***Solenoid Block Assembly***	***4051-010***	1
24	***Rear Orifice - NG***	***4021-376***	1
24	***Rear Orifice - LP***	***582-846***	1
25	***Front Orifice - NG***	***582-846***	1
25	***Front Orifice - LP***	***582-856***	1
26	***MLT Interface***	***4021-375***	1
27	***MLT Receiver***	***HT-13-006***	1
28	Remote Tray	4051-169	1
	Remote Transmitter	4021-381	1
	Remote Transmitter Wall Holder	HTI-16-006	1
	Conversion Kit - NG	***44CKN***	1
	Pilot Injector - 51 - NG	***200-2420***	1
	#18 C-Style Orifice - NG	***4021-376***	1
	Conversion Kit - LP	***44CKP***	1
	Pilot Injector - 35 - LP	***200-2630***	1
	#56 C-Style Orifice - LP	***582-856***	1

D. Optional Components

Door (iron full view)	DF-QFP44-IFV
Door (iron operable)	DF-QFP44-IOP
Door (Craftsman operable, black)	DF-QFP44-COP-BK
Door (Craftsman operable, sienna bronz)	DF-QFP44-COP-SB
Wall Thermostat - Manual	812-3760
Wall Thermostat - Programmable	811-0520
Heat Zone Kit	QFP-HEAT-ZONE
Conversion Kit, LP	44CKP
Conversion Kit, NG	44CKN

E. Limited Lifetime Warranty

LIMITED LIFETIME WARRANTY
The Hearth & Home Technologies limited Lifetime Warranty guarantees that the following components will work as designed for the lifetime of the stove or Hearth & Home Technologies will repair or replace them. These items include but are not limited to steel and cast iron components, all gas burners, gas logs, combustion chambers, heat exchanger systems, stainless steel firebox components, plating, doors, glass damaged by thermal breakage, steel baffle supports, steel and ceramic baffles and manifold tubes. Labor is for the first five years.

THREE YEAR WARRANTY
Our EZ Clean firepots are covered under Hearth & Home Technologies three-year warranty program. Labor is for 3 years.

TWO YEAR WARRANTY
All electrical components such as but not limited to blowers, wiring, vacuum switches, speed controls, control boxes, thermodisc switches, igniters, pilot assembly, gas valves, thermostats and remotes are covered under Hearth & Home Technologies two-year warranty program. Effective April, 2005 igniters are also covered under the two year warraanty. Labor is for two years.

ONE YEAR WARRANTY
Porcelain and powdercoat finishes are warranted against manufacturer defects for one year. Labor to repair or replace these parts is covered for one year, reimbursed per our warranty service fee schedule.

CONDITIONS
This warranty is non-transferable and is made to the original retail purchaser only provided that the purchase was made through an authorized dealer of Hearth & Home Technologies. It must be installed and operated at all times in accordance with the Installation and Operating Instructions furnished with this product, as well as any applicable local and national codes. Any alteration, willful abuse, accident, or misuse of the product shall nullify this warranty.

Labor to repair or replace items covered under the limited Lifetime Warranty will be covered for the first five years per our warranty service fee reimbursement schedule. Parts covered under the limited Lifetime Warranty will be covered for the lifetime of the appliance up to a maximum of ten (10) years after Hearth & Home Technologies discontinues the model and two (2) years for optional accessories. Adjustments, regular maintenance, cleaning and temporary repairs do not qualify for a service call fee and will not be covered. The replacement of consumer replaceable items and installation of upgraded component parts do not quality for a service call fee, and will not be covered.

This limited Lifetime Warranty does not extend to or include surface finish on the appliance, door gasketing, glass gasketing, glass, firebrick, pellet logs, kaowool or other ceramic insulating materials. It does not cover installation or operational-related problems such as overfiring, use of corrosive driftwood, downdrafts or spillage caused by environmental conditions, nearby trees, buildings, hilltops, mountains, inadequate venting or ventilation, excessive offsets, or negative air pressures caused by mechanical systems such as furnaces, fans, clothes dryers, etc.

Any installation, construction, transportation, or other related costs or expenses arising from defective part(s), repair, replacement, etc., will not be covered by this warranty, nor will Hearth & Home Technologies assume responsibility for them. Further, Hearth & Home Technologies will not be responsible for any incidental, indirect, or consequential damages, except as results in damage to the interior or exterior of the building in which this appliance is installed. This limited Lifetime Warranty does not apply to the venting components, hearth components or other accessories used in conjunction with the installation of this product not manufactured by Hearth & Home Technologies

This warranty is void if the stove has been overfired or operated in atmospheres contaminated by chlorine, fluorine, or other damaging chemicals, the stove is subjected to prolonged periods of dampness or condensation, or there is any damage to the stove or other components due to water or weather damage which is the result of, but not limited to, improper chimney or venting installation. Hearth & Home Technologies may, at its discretion, fully discharge all obligations with respect to this warranty by either repairing or replacing the unit, or refunding the wholesale price of the defective part(s).

This limited Lifetime Warranty is effective on all appliances sold after May 1, 2002 and supersedes any and all warranties currently in existence.

Policy 250-8620 Rev J

F. Contact Information

Hearth & Home Technologies Inc.
1445 North Highway
Colville, WA 99114-2124

Please contact your Quadra-Fire dealer with any questions or concerns.

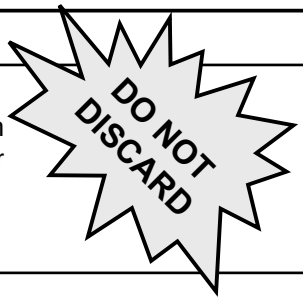
For the number of your nearest Quadra-Fire dealer, please visit www.quadrafire.com.

- NOTES -

CAUTION

DO NOT DISCARD THIS MANUAL

- Important operating and maintenance instructions included.
- Read, understand and follow these instructions for safe installation and operation.
- Leave this manual with party responsible for use and operation.



This product may be covered by one or more of the following patents: (United States) 4593510, 4686807, 4766876, 4793322, 4811534, 5000162, 5016609, 5076254, 5113843, 5191877, 5218953, 5263471, 5328356, 5341794, 5347983, 5429495, 5452708, 5542407, 5601073, 5613487, 5647340, 5688568, 5762062, 5775408, 5890485, 5931661, 5941237, 5947112, 5996575, 6006743, 6019099, 6048195, 6053165, 6145502, 6170481, 6237588, 6296474, 6374822, 6413079, 6439226, 6484712, 6543698, 6550687, 6601579, 6672860, 6688302B2, 6715724B2, 6729551, 6736133, 6748940, 6748942, 6769426, 6774802, 6796302, 6840261, 6848441, 6863064, 6866205, 6869278, 6875012, 6880275, 6908039, 6919884, D320652, D445174, D462436; (Canada) 1297749, 2195264, 2225408, 2313972; (Australia) 780250, 780403, 1418504 or other U.S. and foreign patents pending.